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PASSWORD:

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* * * * * * * * * * Welcome to STN International
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NEWS
      2 AUG 10
                 Time limit for inactive STN sessions doubles to 40
                 minutes
NEWS
         AUG 18
                 COMPENDEX indexing changed for the Corporate Source
                  (CS) field
NEWS
         AUG 24
                 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS
         AUG 24
                 CA/CAplus enhanced with legal status information for
                 U.S. patents
         SEP 09
                 50 Millionth Unique Chemical Substance Recorded in
NEWS
                 CAS REGISTRY
NEWS 7 SEP 11
                 WPIDS, WPINDEX, and WPIX now include Japanese FTERM
                 thesaurus
NEWS 8 OCT 21
                 Derwent World Patents Index Coverage of Indian and
                 Taiwanese Content Expanded
NEWS 9
         OCT 21 Derwent World Patents Index enhanced with human
                 translated claims for Chinese Applications and
                 Utility Models
NEWS 10 NOV 23 Addition of SCAN format to selected STN databases
         NOV 23 Annual Reload of IFI Databases
NEWS 11
NEWS 12
         DEC 01 FRFULL Content and Search Enhancements
NEWS 13
         DEC 01
                 DGENE, USGENE, and PCTGEN: new percent identity
                 feature for sorting BLAST answer sets
                 Derwent World Patent Index: Japanese FI-TERM
NEWS 14
         DEC 02
                 thesaurus added
NEWS 15
         DEC 02 PCTGEN enhanced with patent family and legal status
                 display data from INPADOCDB
         DEC 02
                 USGENE: Enhanced coverage of bibliographic and
NEWS 16
                 sequence information
         DEC 21
                 New Indicator Identifies Multiple Basic Patent
NEWS 17
                 Records Containing Equivalent Chemical Indexing
                 in CA/CAplus
                 Match STN Content and Features to Your Information
NEWS 18
         JAN 12
                 Needs, Quickly and Conveniently
NEWS 19
         JAN 25
                 Annual Reload of MEDLINE database
NEWS 20
         FEB 16
                 STN Express Maintenance Release, Version 8.4.2, Is
                 Now Available for Download
NEWS 21
         FEB 16
                 Derwent World Patents Index (DWPI) Revises Indexing
                 of Author Abstracts
NEWS 22 FEB 16
                 New FASTA Display Formats Added to USGENE and PCTGEN
NEWS 23 FEB 16
                 INPADOCDB and INPAFAMDB Enriched with New Content
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NEWS 24 FEB 16 INSPEC Adding Its Own IPC codes and Author's E-mail Addresses

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2, AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.

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FILE 'HOME' ENTERED AT 16:16:43 ON 27 MAR 2010

=> FIL REG
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.44 0.44

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 16:17:34 ON 27 MAR 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 26 MAR 2010 HIGHEST RN 1214987-89-9 DICTIONARY FILE UPDATES: 26 MAR 2010 HIGHEST RN 1214987-89-9

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=>

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chain nodes:
1 2 3 4 5 6 7 9 11
chain bonds:
1-2 1-3 2-11 3-4 3-5 5-6 6-7 6-9
exact/norm bonds:
1-2 1-3 2-11 3-4 5-6 6-7 6-9
exact bonds:
3-5
```

G1:CH3,Et,CF3,MeO,X

G2:Cb,Ak

Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:CLASS 9:CLASS 11:CLASS Generic attributes:
6:
Saturation : Unsaturated

## L1 STRUCTURE UPLOADED

4 ANSWERS

=> D

L1 HAS NO ANSWERS

L1 STR

$$\begin{array}{c|c} & G1 & O \\ \hline \\ Cy & \\ CH_2 & NH \end{array}$$
 SO<sub>2</sub> G2

G1 Me, Et, CF3, MeO, X

G2 Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=> S L1

SAMPLE SEARCH INITIATED 16:17:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6806 TO ITERATE

29.4% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 131173 TO 141067 PROJECTED ANSWERS: 51 TO 493

L2 4 SEA SSS SAM L1

=> D SCAN

L2 4 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
IN Benzeneacetamide,
4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl2-thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]MF C29 H45 N O4 S2

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> S L1 FULL

FULL SEARCH INITIATED 16:18:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 137404 TO ITERATE

100.0% PROCESSED 137404 ITERATIONS 470 ANSWERS

SEARCH TIME: 00.00.07

L3 470 SEA SSS FUL L1

=> FIL CAPLUS

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 191.54 191.98

FILE 'CAPLUS' ENTERED AT 16:18:27 ON 27 MAR 2010 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 27 Mar 2010 VOL 152 ISS 14

FILE LAST UPDATED: 26 Mar 2010 (20100326/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L3

L4 140 L3

=> S L4 AND PY<2004 24050550 PY<2004

L5 102 L4 AND PY<2004

=> S L4 AND PRY<2004 4301790 PRY<2004 L6 106 L4 AND PRY<2004

=> S L5 OR L6

L7 109 L5 OR L6

=> D IBIB 1

03/27/2010 10/541,429

L7 ANSWER 1 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:857325 CAPLUS 2004:857325 CAPLUS 141:350033

DOCUMENT NUMBER:

TITLE: INVENTOR(S):

141:350033
Preparation of 5-methoxy-2-methylindole-3-acetamide derivs. as potassium channel blockers for treating ocular hypertension Fisher, Michael B.; Garcia, Maria L.; Kaczorowski, Gregory J.; Meinke, Peter T.; Parsons, William H.; Boyd, Etward Andrew, Price, Stephen; Stibbard, John Merck & Co., Inc., USA; Evotec Oai PCT Int. Appl., 109 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE WO 2004087051 A2 20041014 WO 2004-US9028 20040324 WO 2004087051 A3 20050721
W1 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EZ, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, RE, KG, RP, RK, RZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MK, MZ, NA, NI, NO, NZ, CM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZM RN: BM, GH, GM, KE, LS, MW, MZ, SA, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, SK, TR, FR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG TD, TG AU 2004226479 A1 20041014 AU 2004-226479 20040324 CA 2519899 A1 20041014 CA 2004-2519899 20040324 EP 1610776 A2 20060104 EP 2004-758273 20040324 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, FL, SK
CN 1791402 A 20060621 CN 2004-80013916 20040324 JP 2006524239 Т 20061026 JP 2006-509260 20040324 A1 20060330 US 2005-542169 US 20060069256 20050713 US 7414067 B2 A 20080819 IN 2005DN04100 20070831 TN 2005-DN4100 20050912 PRIORITY APPLN. INFO.: US 2003-458103P P 20030327

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

WO 2004-US9028 A 20040324

L7 ANSWER 1 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
OTHER SOURCE(S): CAPREACT 141:350033, MARPAT 141:350033
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

(1 CITINGS) THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT: FORMAT

=> D IBIB 2-5

RECORD

FORMAT

REFERENCE COUNT:

L7 ANSWER 2 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS

(2 CITINGS)

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L7 ANSWER 2 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:675710 CAPLUS DOCUMENT NUMBER: 141:190512 A preparation of 2-arylacetic acid derivatives, TITLE: useful for the treatment of IL-8 mediated diseases Moriconi, Alessio; Allegretti, Marcello; Bertini, Riccardo; Cesta, Maria Candida; Bizzarri, Cinzia; Colotta, Francesco Dompe' S.p.A., Italy PCT Int. Appl., 46 pp. CODEN: PIXXD2 INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. PATENT NO. KIND DATE DATE A2 20040819 WO 2004069782 WO 2004-EP1021 20040204 W0 2004069782 A3 20040916
W1: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
RN: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG
AU 2004210082 A1 20040819 AU 2004-210082 20040204 CA 2511582 A1 20040819 CA 2004-2511582 20040204 EP 1590314 A2 20051102 EP 2004-707926 20040204 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK CN 1768026 A 20060503 CN 2004-80008741 20040204 CN 100562511 JP 2006516592 20091125 20060706 JP 2006-501731 20040204 RU 2356887 RU 2005-127777 C2 20090527 20040204 US 20060223842 A1 20061005 US 2005-541429 20050705 NO 2005004017 20050830 NO 2005-4017 20050830 PRIORITY APPLN INFO : EP 2003-2716 A 20030206 W 20040204 WO 2004-EP1021 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 141:190512

L7 ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:392321 CAPLUS COPTRIGHT ZULU ACS ON STN
2004:392321 CAPLUS
140:406826
Preparation of N-benzylpiperazine derivatives as chemokine receptor CCR1 antagonists useful as immunomodulatory agents
Blumberg, Laura C.; Brown, Matthew F.; Gaweco, Anderson S.; Gladue, Ronald P.; Hayward, Matthew M.; Lundquist, Gladue, Ronald P.; Hayward, Matthew M.; Lundquist, Gregory D.; Poss, Christopher S.; Shavnya, Andrei
U.S. Pat. Appl. Publ., 58 pp.
CODEN: USXXCO
Patent
English
2 DOCUMENT NUMBER: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. KIND DATE DATE A1 20040513 US 20040092529 US 2003-686993 20031016 PRIORITY APPLN. INFO.: US 2002-422590P P 20021030 OTHER SOURCE(S): MARPAT 140:406826

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:387265 CAPLUS
DOCUMENT NUMBER: 140:391297
TITLE: Preparation of piperazine derivatives as CCR1
antagonists
Blumberg, Laura Cook; Brown, Matthew Frank; Gaweco,
Anderson See; Gladue, Ronald Paul; Hayward, Matthew
Merrill; Lundquist, Gregory Dean; Poss, Christopher
Stanley; Shavnya, Andre
PATENT ASSIGNEE(S): Pfizer Products Inc., USA
PCT Int. Appl., 131 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Patent
English
PATENT NO. NUM. COUNT: 2 L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) PATENT NO. KIND DATE APPLICATION NO. WO 2004039376 A1 20040513 WO 2003-IB4612 20031020 AU 2003269364 A1 20040525 AU 2003-269364 20031020 BR 2003015777 A 20050913 BR 2003-15777 20031020 A1 20051012 EP 2003-751145 EP 1583533 20031020 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, FT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK JF 2006506391 T 20060223 JF 2004-547876 20031020 MX 2005004650 A 20050608 MX 2005-4650 20050429 <-PRIORITY APPLN. INFO.: US 2002-422590P P 20021030 WO 2003-IB4612 W 20031020 OIREK SOURCE(S): M.
OS.CITING REF COUNT: 1
RECORD OTHER SOURCE(S): MARPAT 140:391297

1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS (1 CITINGS) THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT: FORMAT

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(FILE 'HOME' ENTERED AT 16:16:43 ON 27 MAR 2010)

FILE 'REGISTRY' ENTERED AT 16:17:34 ON 27 MAR 2010

L1 STRUCTURE UPLOADED

L2 4 S L1

L3 470 S L1 FULL

FILE 'CAPLUS' ENTERED AT 16:18:27 ON 27 MAR 2010

L4 140 S L3

L5 102 S L4 AND PY<2004 L6 106 S L4 AND PRY<2004

L7 109 S L5 OR L6

=> S L4 AND PY<2003

22998523 PY<2003

L8 96 L4 AND PY<2003

=> D IBIB ABS HITSTR L7 TOT

L7 ANSWER 1 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:857325 CAPLUS DOCUMENT NUMBER: 141:350033 Preparation of 5-methoxy-2-methylindole-3-acetamide TITLE: Preparation of 5-methoxy-2-methylindole-3-acetamide derivs. as potassium channel blockers for treating ocular hypertension Fisher, Michael H.; Garcia, Maria L.; Kaczorowski, Gregory J.; Meinke, Peter T.; Parsons, William H.; Boyd, Edward Andrew, Price, Stephen; Stibbard, John Merck & Co., Inc., USA; Evotec Cai PCT Int. Appl., 103 pp. CODEN: PIXXD2 INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. PATENT NO. KIND DATE DATE WO 2004087051 A2 20041014 WO 2004-US9028 20040324 W0 2004087051 A3 20050721
W1 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EZ, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, RE, RG, RP, RR, RZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MK, MZ, NA, NI, NO, NZ, CM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZM ZW, RW; BM, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, RZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, SK, TR, BF, BG, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG TD, TG AU 2004226479 A1 20041014 AU 2004-226479 20040324 CA 2519899 20041014 CA 2004-2519899 20040324 A1 EP 1610776 20060104 EP 2004-758273 20040324 A2 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, FL, SK 1791402 A 20060621 CN 2004-80013916 20040324

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

20061026

20060330

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20070831

JP 2006-509260

US 2005-542169

TN 2005-DN4100

US 2003-458103P

WO 2004-US9028

20040324

20050713

20050912

P 20030327

A 20040324

Т

A1

B2

(Continued) L7 ANSWER 1 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

(1 CITINGS)
THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

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CN 1791402 JP 2006524239

US 7414067

US 20060069256

TN 2005DN04100

PRIORITY APPLN. INFO.:

ANSWER 1 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Co R SOURCE(S): CASREACT 141:350033; MARPAT 141:350033 (Continued) OTHER SOURCE(S):

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

The title compds. I [X = -(CHR7)p-; Y = -CO(CH2)n- or -CH(OR8)-; Q = N, CR9, or O; R1 = H, alkyl, CF3, alkoxy, OH, etc.; R2 = H, alkyl, alkylSR8, -(CH2)nO(CH2)mOR8, -(CH2)alkoxy, etc.; R3 = H, alkyl, -(CH2)noycloalkyl, -(CH2)nbeterocyclyl, or when Q = N, R2, R3 taken together with the the form a 4-10 membered heterocyclic ring; R4, R5 = H, alkoxy, OH, alkyl, COOR8, SOSH, etc.; R6 = H, alkyl, -(CH2)(hetero)aryl, -NH (CH2)(hetero)aryl, etc.; R7 = H, alkyl, -(CH2)nCOOR8, or 2)nN(R8)2;

-NB(CH2)(hetero)aryl, etc.; R7 = H, alkyl, -(CH2)nCOOR8, or -(CH2)nN(R8)2;

R8 = H, or alkyl; R9 = H, or alkyl; m = 0-3; n = 0-3, p = 0-1] were prepared
as potent potassium channel blockers in the treatment of glaucoma and other conditions which leads to elevated intraocular pressure in the eye of a patient. For example, reaction of 1-(4-chlorobenzoyl)-5-methoxy-2-methylindole-3-acetic acid with N-cyclohexyl-N-thiazol-2-yl amine (preparation given) yielded compound II. The

compds. of this invention inhibited Maxi-K Channel activity with IC50's

the range of 1 nM to 20 µM.
76812-29-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 5-methoxy-2-methylindole-3-acetamide derivs. as

potassium

ssium channel blockers for treating ocular hypertension)
76812-29-8 CAPUS
1H-Indole-3-acetamide, 1-(4-chlorobenzoy1)-5-methoxy-2-methyl-N(methylsulfonyl)- (CA INDEX NAME)

L7 ANSWER 2 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:675710 CAPLUS DOCUMENT NUMBER: 141:190512 A preparation of 2-arylacetic cuseful A preparation of 2-arylacetic acid derivatives,

for the treatment of IL-8 mediated diseases Moriconi, Alessio; Allegretti, Marcello; Bertini, Riccardo; Cesta, Maria Candida; Bizzarri, Cinzia; Colotta, Francesco Dompe' S.p.A., Italy POTI Int. Appl., 46 pp. CODEN: PIXXD2 INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. CO PATENT INFORMATION: Patent. English

F	PATENT NO.					KIND DATE				APPLICATION NO.						ASSESSED AND ASSESSED ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED AND ASSESSED ASSESSED AND ASSESSED ASSESSEDANCE ASSESSED ASSESSEDA		
- W	10	2004	0697	82		A2 20040819				WO 21	004-	EP10	21	20040204				
	10	2004	0697	82		АЗ		2004	0916						Marian Maria			
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		RW:	BG, MC,	CH, NL,	CY, PT,	CZ, RO,	DE, SE,	MW, DK, SI, SN,	EE, SK,	ES, TR,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,
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_ 0	m	R: 1768	IE,	SI,		LV,	FI,	ES, RO, 2006	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
C		1005 2006				C T		2009 2006	0706							_		
- F	U	2356	887			C2		2009	0527		RU 2	005-	12.77				00.40	204
_ U	JS	2006	0223	842		A1		2006	1005	San San	US 2	005-	5414	29		2	0050	705 830
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IORI	TY	APP:	LN.	INFO	. :						EP 2	003-	2716			A 2	0030	206
												004	ED 10	21		or 2	0040	

L7 ANSWER 2 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

The invention relates to a preparation of 2-arylacetic acid derivs. of

AB The invention relates to a parameter formula

AB-CHZC(O)-Y [wherein: A is a 5 to 6 membered (hetero)aromatic ring where heteroatom is selected from N, O, S, etc.; the 5-6 membered (hetero)aromatic ring is optionally fused with a second ring; Y is NH2, NH-(cyclo)alkyl,

or

NH-cycloalkenyl, etc.], useful in inhibiting chemotactic activation of neutrophils (FMN leukocytes) induced by the interaction of Interleukin-8 (IL-8) with CXCR1 and CXCR2 membrane receptors. The compds. are used for the prevention and treatment of pathologies deriving from said activation.

In particular, o-substituted arylacetic acid derivs., such as amides and sulfonamides, lack cyclo-oxygenase inhibition activity and are particularly useful in the treatment of neutrophil-dependent pathologies such as psoriasis, ulcerative colitis, or melanoma, etc. For instance, prepared in the example 2 acetic acid derivative I (10-8M) showed 62% (IL-8) and

) and 5% (GRO- $\alpha$ ) inhibitory activity on CXCR1 and CXCR2 receptors. 740839-45-6P 740839-46-7P 740839-47-8P 740839-48-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(preparation of arylacetic acids useful for the treatment of IL-8 mediated

tted diseases) 740839-45-6 CAPLUS 1H-Pyrrole-2-acetamide, 5-acetyl-1-methyl-N-(methylsulfonyl)- (CA INDEX NAME)

740839-46-7 CAPLUS

PRIORITY APPLN. INFO.:

nzeneacetamide, 2-methyl-4-(2-methylpropyl)-N-(methylsulfonyl)- (CA INDEX NAME)

ANSWER 2 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

740839-47-8 CAPLUS
Benzeneacetamide, 2-methyl-N-(methylsulfonyl)-4[[(trifluoromethyl)sulfonyl]amino]- (CA INDEX NAME)

740839-48-9 CAPLUS 1H-Pyrrole-2-acetam (CA INDEX NAME) acetamide, 1-methyl-5-(4-methylbenzoyl)-N-(methylsulfonyl)-

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS

(2 CITINGS)
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:610159 CAPLUS PLUS COPYRIGHT 2010 ACS on STN
2004:610159 CAPLUS
141:174068
Vesicant treatment with (phenylalkyl)thiophenes as
vitamin D receptor modulators
Nagpal, Sunil
Eli Lilly and Company, USA; Yee, Ying Kwong
PCT Int. Appl., 496 pp.
CODEN: PIXXD2
Patent DOCUMENT NUMBER: INVENTOR (S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: Patent English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: KIND DATE WO 2004063348 A2 WO 2004-US6 20040107 20040729 WO 2004063348 20051027 063348 A3 20051027 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, VP, KZ, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MN, MX, MZ 905 A2 20051026 EP 2004-700549 20040107 EP 1587905 A3 20051214 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK US 20060135484 A1 20060622 US 2005-540667 20050624 SE, MC, PT,

US 2003-439575P

WO 2004-US6

P 20030110

W 20040107

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 141:174068 OTHER SOURCE(S):

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

The present invention relates to a method of treating or preventing

e to human skin cells by chemical vesicants, such as mustard, by

5-(3-oxo-4,4-dimethylpentyl)-4-methylthiophene derivative (82%).

Deprotection tection using Pd/C in EtOH/EtOAc provided the phenol (97%), which was alkylated with methylmercaptomethyl chloride (73%) and oxidized using m-CFBA to afford the 4-(methylsulfonylmethoxy)-3-methylphenyl derivative (33%).

afford the 4-[me:nyisuzoun, memory].

Reduction

of the ketone using NaBH2 in MeOH yielded the alc. II (quant.). The
preferred enantiomer of latter exhibited VDR activity in the RXR-VDR
heterodimer assay [EC50 = 40.57 mM) and showed osteoporosis inhibition
activity in the osteocalcin (OCN) promoter assay [EC50 = 46.82 mM), while
demonstrating low toxicity in the mouse hypercalcemia assay [EC50 = >1000

nM). In addition, results from the keratinocyte proliferation assay

(IC50 =

O = 76 nM) and the IL-10 induction assay (IC50 = 26 nM) indicated that the preferred enantiomer of II may also be useful for the treatment of psoriasis, abscesses, and adhesions.

633341-9-2P 633341-20-5P 633341-21-6P
633341-22-7P 633341-23-8P 633341-24-9P

633341-19-2F 633341-22-7P 633341-25-0P 633341-28-3P 633341-31-8P 633341-24-9F 633341-27-2F 33341-26-1P 633341-29-4P 633341-32-9P 633341-35-2P 633344-99-5P 633344-99-59 633344-99-69 633344-91-4P 633350-15-9P 633350-12-P 633350-21-7P 633350-24-0P 633350-24-0P 633341-31-0P 633341-34-1P 633344-85-1P 633344-88-4P 633344-91-9P

ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN 633353-96-5P 633353-97-6P 633353-98-TP 633353-99-8P 633354-00-4P 633354-01-5P (Continued) 633354-00-4P 633354-03-7P 633354-02-6P 633354-04-8P 633354-02-6P 633354-03-7P 633354-04-8P 633354-0-1P 633554-05-9P 633534-05-07-1P 633554-08-07-1P 633554-08-07-1P 633554-08-2P 633554-10-6P 633554-11-7P 633554-12-8P 633554-11-8P 633554-12-8P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(VDR modulator; prepn. of (phenylalkyl)thiophenes as VDR modulators

for preventing or treating damage to human skin cells by chem. vesicants)
RN 633341-19-2 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-[4-(4,4-dimethyl-3-oxopentyl)-3-methylphenyl]-1ethylpropyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633341-21-6 CAPLUS

NN 633341-21-6 CAFBOS CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3,4,4-trimethylpentyl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633341-22-7 CAPLUS
2-Thiopheneacetamide, 5-[1-ethyl-1-[3-methyl-4-(2,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633341-24-9 CAPLUS

23-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,3,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl-

(CA INDEX NAME)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 633341-25-0 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-[4-(4,4-dimethyl-3-oxopentyl)-3-methylphenyl]-1ethylpropyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

 $\begin{array}{lll} 633341-26-1 & \texttt{CAPLUS} \\ 2-\texttt{Thiopheneacetanide}, & 5-[1-\texttt{ethyl-1-}[4-(3-\texttt{hydroxy-4}, 4-\texttt{dimethylpentyl})-3-\texttt{methylphenyl}] \\ \texttt{propyl}]-3-\texttt{methyl-N-}[(1-\texttt{methylethyl}) \\ \texttt{sulfonyl}]- & (\texttt{CA INDEX NAME}) \end{array}$ 

633341-27-2 CAPLUS

NN 03341-2/-2 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-(4-(3-hydroxy-3,4,4-trimethylpentyl)-3methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX
NAME)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633341-28-3 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[3-methyl-4-(2,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633341-29-4 CAPLUS

NN 0505472-4 CAFING
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-(4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633341-30-7 CAPLUS

003041-30-7 CAPEUS
2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,3,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633341-31-8 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-[4-(4,4-dimethyl-3-oxopentyl)-3-methylphenyl]-1-ethylpropyl]-3-methyl- (CA INDEX NAME)

633341-32-9 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-4,4-dimethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

OBJOSH-33-0 CARDOS 22-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-3,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA TNDEX NAME)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633341-34-1 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[3-methyl-4-(2,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-3-methyl- (CA INDEX NAME)

633341-35-2 CAPLUS 2-Thiopheneacteanide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA

633341-36-3 CAPLUS vologue=36-3 CAPLUS
2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-2,3,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 633344-85-1 CAPLUS
CN Benzeneacetamide,
4-[1-[5-(4,4-dimethyl-3-oxopentyl)-4-methyl-2-thienyl]-1ethylpropyl]-M-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

633344-86-2 CAPLUS Benzeneacetamide,

CN Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

633344-87-3 CAPLUS Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-3,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN 633344-88-4 CAPLUS (Continued)

633344-88-4 CAPLUS Benzeneacetamide, -ethyl-1-[4-methyl-5-(2,4,4-trimethyl-3-oxopentyl)-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

633344-89-5 CAPLUS
Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

RN 633344-90-8 CAPLUS
CN Benzeneacetamide,
4-[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

RN 633344-91-9 CAPLUS
CN Benzeneacetamide,
4-[1-[5-(4,-d-dimethyl-3-oxopenty1)-4-methyl-2-thienyl]-1-ethylpropyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 633344-92-0 CAPLUS
CN Benzeneacetamide,
4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl2-thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633344-93-1 CAPLUS
Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-3,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

$$\begin{array}{c} \text{OH} \\ \text{t-Bu-C-CH}_2\text{-CH}_2\\ \text{Me} \end{array}$$

633344-94-2 CAPLUS

NN 633344-94-2 CAFLUS

CN Benzenacetamide
4-[1-ethyl-1-[4-methyl-5-(2,4,4-trimethyl-3-oxopentyl)-2thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633344-95-3 CAPLUS
Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

CAPLUS

TO Benzeneacetamide,
4-[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4methyl-2-thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633344-97-5 CAPLUS

NN 633344-91-0 CATIONS
CN Benzeneacetamide,
N-[(1,1-dimethylethyl)sulfonyl]-4-[1-[5-(4,4-dimethyl-3-oxopentyl)-4-methyl-2-thienyl]-1-ethylpropyl]-2-methyl- (CA INDEX NAME)

ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633344-98-6 CAPLUS
Benzeneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-4-[1-ethyl-1-[5-(3-hydroxy-4,-4-dimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl- (CAINDEX NAME)

633344-99-7 CAPLUS Benzeneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-4-[1-ethyl-1-[5-(3-hydroxy-3,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-INDEX NAME)

$$\begin{array}{c} \text{OH} \\ \text{t-Bu-C-CH}_2\text{-CH}_2\\ \text{Me} \end{array}$$

NN 633343-01-05 CAFLOS
CN Benzeneacetamichyll-4-[1-ethyl-1-[4-methyl-5-N-[(1,1-dimethyl-thyl)thyl-3-oxopentyl)-2-thienyl]propyl]-2-methyl(CA INDEX

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633345-01-4 CAPLUS Benzeneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-4-[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl- (CA INDEX NAME)

633345-02-5 CAPLUS
Benzeneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-4-[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-(CA INDEX NAME)

633350-14-8 CAPLUS 2-Thiophemeactenide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methylpentyl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN 633350-15-9 CAPLUS (Continued)

CA INDEX NAME)

Name of the control of the control

RN 633350-16-0 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-pentyn-1-y1)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl-

633350-17-1 CAPLUS

63330-1/-1 CAPLOS
2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633350-18-2 CAPLUS

NN 63330-18-2 CAPLOS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-penten-1-yl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ \text{Et} - \text{S} - \text{NH} - \text{C} - \text{CH}_2 \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

RN 633350-19-3 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-pentyn-1-yl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ Et-S-NH-C-CH_2 & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

633350-20-6 CAPLUS

2-Thiopheneacetamide, 5-[1-ethy1-1-[4-(3-hydroxy-3-methylpenty1)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633350-21-7 CAPLUS

NN 63330-21-7 CAPLOS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NNMP)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 633350-22-8 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-pentyn-1-yl)-3methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633350-23-9 CAPLUS

2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA III)

633350-24-0 CAPLUS

NN 03330-4-0 CAPLOS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 633350-25-1 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-pentyn-1-yl)-3methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633350-26-2 CAPLUS

2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-3-methylpentyl)-3-methylpenyl]propyl]-3-methyl- (CA INDEX NAME)

633350-27-3 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633350-28-4 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-pentyn-1-yl)-3-methylphenyl]propyl)-3-methyl- (CA INDEX NAME)

 $\begin{array}{lll} 633350-29-5 & \texttt{CAPLUS} \\ 2-\texttt{Thiopheneacetamide}, & \texttt{N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-3-methyl-} & \texttt{(CA INDEX NAME)} \\ \end{array}$ 

INDEX NAME)

633350-31-9 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-pentyn-1-yl)-3-methylphenyl]propyl]-3-methyl- (CA

INDEX NAME)

(Continued)

ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

$$\begin{array}{c} \text{Me} \\ \text{CH} \\ \text{CH} \\ \text{CH} \end{array}$$

633353-99-8 CAPLUS 2-Thiophemeactamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethyl]-3-methylphemyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633354-00-4 CAPLUS

633334-00-4 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethynyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633354-01-5 CAPLUS

2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633354-02-6 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethyl]-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633353-96-5 CAPLUS 2-Thiopheneacetamide, 5-[1 ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethynyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

$$c = c \qquad \qquad \begin{array}{c} E_{t} \\ E_{t} \\ \end{array}$$

RN 633353-98-7 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl\_1-[4-[2-(1-hydroxycyclopentyl)ethenyl]-3methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 633354-03-7 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethynyl]-3methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633354-04-8 CAPLUS

NN 05554-0-CAFINAL CONTROL OF CAFINAL CAFINAL CONTROL OF CAFINAL CAFINAL

633354-05 CAPLUS

Selectamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethyl]-3-hyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633354-06-0 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethynyl]-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ &$$

633354-07-1 CAPLUS
2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

23734-06-2 CARDOS 22-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethyl]-3-methylphenyl]propyl]-3-methyl- (CA INDEX

L7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633354-09-3 CAPLUS

 $\label{eq:continuous} 22-\text{Thiophenacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethynyl]-3-methylphenyl]propyl]-3-methyl- (CA)$ TNDEX

NAME)

633354-10-6 CAPLUS 2-Thiopheneactamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethenyl]-3-methylphenyl]propyl]-3-methyl- (CA INDEX

$$\begin{array}{c} \text{Me} \\ \text{CH} \\ \text{CH} \\ \text{CH} \end{array}$$

633354-11-7 CAPLUS

055534-11-/ CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethyl]-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME) RN CN

ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633354-12-8 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethynyl]-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

OS.CITING REF COUNT: RECORD 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS

(2 CITINGS)
THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT: FORMAT

ACCESSION NUMBER:

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

SSSION NUMBER: 2004:392321 CAPLUS

MENT NUMBER: 140:60826

E: Preparation of N-benzylpiperazine derivatives as chemokine receptor CCR1 antagonists useful as immunomodulatory agents

SINTOR(S): Blumberg, Laura C.; Brown, Matthew F.; Gaweco, Anderson S.; Gladue, Ronald P.; Hayward, Matthew M.; Lundquist, Gregory D.; Poss, Christopher S.; Shavnya, Andrei

INT ASSIGNEE(S): Pfizer Inc, USA

U.S. Pat. Appl. Publ., 58 pp.

CODEN: USXXCO
Patent

SUAGE: English

LY ACC. NUM. COUNT: 2 INVENTOR(S):

PATENT ASSIGNEE(S):

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 20040092529 A1 20040513 US 2003-686993 20031016 PRIORITY APPLN. INFO.: US 2002-422590P 20021030 OTHER SOURCE(S): MARPAT 140:406826

$$(\mathbb{R}^{4})_{p}$$

$$(\mathbb{R}^{5})_{q}$$

$$(\mathbb{R}^{2})_{n}$$

$$(\mathbb{R}^{1})_{m}$$

AB The present invention relates to compds. of the formula (I) and the pharmaceutically acceptable forms thereof [m = 0-5; n, p = 0-2; q = 0-4;

= 0, S, CH2, (un)substituted NH; Y = C6-10 aryl, C2-9 heteroaryl, R1 = H, H0, halo, C1-8 alkyl, C1-8 alkoxy, H0-C1-8 alkyl, cyano, NH2, H2N-C1-8 alkyl, C02H, C1-8 alkyl-C0, C1-8 alkyl-C0-C1-8 alkyl, C0NH2, or >-C1-8

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) present invention is also directed at pharmaceutical compns. comprising the compd. I and a pharmaceutically acceptable carrier. Furthermore, the present invention is directed at methods of using the herein described compds. and compns. for treating or preventing a disorder or condition that can be treated or prevented by antagonizing the CCRI receptor in a mammal. Particularly, disclosed is a method of treating or preventing a disorder or condition selected from the group consisting of fibrosis, Alzheimer's disease, conditions assocd with leptin prodn., sequelae assocd, with cancer, cancer metastasis, diseases or conditions related to prodn. of cytokines at inflammatory sites, and tissue damage caused by inflammation induced by infectious agents, wherein the method comprises administering to a mammal in need of such treatment or prevention a pharmaceutically effective amt. of the compd. I or a pharmaceutically acceptable form thereof. The compds. I are potent and selective inhibitors of MIP-1a (CCL3) binding to its receptor CCR1 found on inflammatory and immunomodulatory cells (preferably leukocytes and lymphocytes). [2-[3-[4-(4-fluorobenzy1)-(2R,5S)-2,5-dimethylphiperazin-1-y1]-3-oxopropyl-5-methylphenoxyl acetic acid was condensed with methanesulfonamide in CH2Cl2 at room temp. for 16 h using 4-dimethylaminopyridine and 1-ethyl-3-(3-dimethylaminopyryl) carbodimide hydrochloride to give N-[[2-3-4-(4-fluoro-benzy1)-(2R,5S)-2,5-dimethylphenoxylpacetyl)methanesulfonamide. All the compds. I inhibited MIP-1a (and the related chemokines shown to interact with CCR1) induced chemotaxis of THP-1 cells and human leukocytes with IC50 of <10 µM.

N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)-(2R,58)-2,5-dimethylpiperazin-1-yl]2-oxoethoxylphenyllacetyl]-trifluoromethanesulfonamide
519173-94-5P 519173-95-6P,
N-[[2-[2-[4-(4-fluorobenzyl)-(2R,58)-2,5-dimethylpiperazin-1-yl]-2oxoethoxyl-4-methoxyphenyllacetyl]methanesulfonamide
519173-96-7P 519173-97-8P,

N-[[5-Chloro-2-[2-[4-(4-fluorobenzy1)-(2R,58)-2,5-dimethylpiperazin-1-y1]-2-oxoethoxy]phenyl]acetyl]-2-methylbenzenesulfonamide 519173-98-9P, Ehanesulfonic acid

 $\begin{aligned} &\text{N-[\{5-\text{chloro-}2-[2-[4-(4-\text{fluorobenzyl})-(2R,5S)-2,5-\text{dimethylpiperazin-}1-yl]-2-\text{oxoethoxy]phenyl]acetyl]amide} & 519174-00-6P, \\ &\text{N-[[5-Brono-2-[2-[4-(4-\text{fluorobenzyl})]piperazin-1-yl]-2-\text{oxoethoxy]phenyl]acetyl]methanesulfonamide}} & 519174-01-7P, \\ &(R)-N-[[5-\text{chloro-}2-[2-[4-(4-\text{fluorobenzyl})-2-\text{methylpiperazin-}1-yl]-2-\text{oxoethoxy]phenyl}]acetyl]methanesulfonamide} & 519174-02-8P, \end{aligned}$ 

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 5191/2-3/-3 CAFEGO CN 3-Pyridineacetamide, 5-chloro-2-[2-[(2R,58)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519173-91-2 CAPLUS
Benzeneacetamide, 5-bromo-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAM

Absolute stereochemistry.

519173-92-3 CAPLUS
Benzeneacetamide,
hloro-2-[2-[4-[(4-fluorophenyl)methyl]-1-piperazinyl]2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (R)-N-[[5-Bromo-2-[2-[4-(4-fluorobenzyl)-2-methylpiperazin-1-y1]-2-oxoethoxylphenyl]acetyl]methanesulfonamide 519174-03-9F,

N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)-(2R,5S)-2,5-dimethylpiperazin-1-yl]2-oxoethoxy]phenyl]acetyl]-4-methoxybenzenesulfonamide
519174-04-0P, 2-Chloro-N-[[5-chloro-2-[2-[4-(4-fluorobenzyl)(2R,5S)-2,5-dimethylpiperazin-1-yl]-2oxoethoxy]phenyl]acetyl]benzenesulfonamide
519174-05-1P,

N-[[5-Chloro-2-[2-[4-(4-fluorobenzy1)-(2R,5S)-2,5-dimethylpiperazin-1-y1]-2-oxoethoxy]phenyl]acetyl]-2-fluorobenzenesulfonamide
519174-06-2P, N-[[5-Chloro-2-[2-[4-(4-fluorobenzy1)-(2R,5S)-2,5-dimethylpiperazin-1-y1]-2-oxoethoxy]phenyl]acetyl]-4-methylpiperazin-1-y1]-2-oxoethoxy]phenyl]acetyl]-4-methylbenzenesulfonamide
519174-07-3P, Propane-2-sulfonic acid

 $\begin{aligned} &\text{N-[[4-Chloro-2-[2-[4-(4-fluorobenzy1)-(2R,5S)-2,5-dimethylpiperazin-1-y1]-2-oxoethoxy]phenyl]acetyl]methanesulfonamide & 519174-12-0P, \\ &(R)-M-[[4-Chloro-2-[2-[4-(4-fluorobenzy1)-2-methylpiperazin-1-y1]-2-oxoethoxy]phenyl]acetyl]methanesulfonamide & 519174-13-1P, \end{aligned}$ 

N-[[5-Chloro-2-[2-[4-(3,4-difluorobenzyl)-(2R,5S)-2,5-dimethylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]methanesulfonamide 519174-14-2F,

 $\begin{array}{lll} N-[[5-Chloro-2-[2-[4-(4-chlorobenzy1)-(2R,58)-2,5-dimethylpiperazin-1-y1]-2-oxoethoxy] phenyl] acetyl] methanesulfonamide & 519174-16-4P, \end{array}$ 

N-[[5-Chloro-2-[2-[4-(4-fluorobenzy1)-(2R,58)-2,5-dimethylpiperazin-1-y1]-5-Chloro-2-[2-[4-(4-fluorobenzyl)-(2R,5S)-2,5-dimethylpiperazin-1-yl]2-oxoethoxy]phenyl]acetyl]phenylmethanesulfonamide 519174-18-6P
(R)-N-[5-Chloro-2-[2-[4-(4-chlorobenzyl)-2-methylpiperazin-1-yl]-2coxoethoxy]phenyl]acetyl]methanesulfonamide 519174-19-7P
(R)-N-[5-Chloro-2-[2-[4-(3,4-difluorobenzyl)-2-methylpiperazin-1-yl]-2coxoethoxy]phenyl]acetyl]methanesulfonamide 519174-20-0P
(R)-N-[5-Chloro-2-[2-[2-ethyl-4-(4-fluorobenzyl)piperazin-1-yl]-2coxoethoxy]phenyl]acetyl]methanesulfonamide 519174-21-1P,
(R)-N-[5-Bromo-2-[2-[2-ethyl-4-(4-fluorobenzyl)piperazin-1-yl]-2coxoethoxy]phenyl]acetyl]methanesulfonamide 519174-22-2P,
(R)-N-[2-[2-[2-Ethyl-4-(4-fluorobenzyl)piperazin-1-yl]-2coxoethoxy]phenyl]acetyl]methanesulfonamide 519174-22-2P,
(R)-N-[2-[2-[2-Ethyl-4-(4-fluorobenzyl)piperazin-1-yl]-2-oxo-ethoxy]-5methylphenyl]acetyl]methanesulfonamide
RL: PAC (Fharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(Uses)
(prepn. of N-benzylpiperazine derivs. as chemokine receptor CCR1
antagonists useful as immunomodulatory agents)
519172-07-7 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

519173-93-4 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,58)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(trifluoromethyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

519173-94-5 CAPLUS

Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(4-fluorophenyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 519173-95-6 CAPLUS
CN Benzeneacetamide,
2-[2-[(2R,55)-4-[(4-filoorophenyl)methyl]-2,5-dimethyl-1piperazinyl]-2-oxoethoxy]-4-methoxy-N-(methylsulfonyl)- (CA INDEX NAME)

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

519173-96-7 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(phenylsulfonyl)- (CA INDEX NAME)

519173-97-8 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,58)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(2-methylphenyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

 $\label{eq:capilor} 519173-98-9 \quad \text{CAPLUS} \\ \text{Benzeneacetamide, } 5-\text{chloro-N-(ethylsulfonyl)-2-[2-[(2R,5S)-4-[(4-R)+R)-4]-(4-R)-4]-(4-R)-1} \\ \text{Benzeneacetamide, } 5-\text{chloro-N-(ethylsulfonyl)-2-[2-[(2R,5S)-4-[(4-R)+R)-4]-(4-R)-4]-(4-R)-1} \\ \text{Captilor } 1-\text{Captilor } 1$ 

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-03-9 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(4-methoxyphenyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

519174-04-0 CAPLUS Benzeneacetamide, 5-chloro-N-[(2-chlorophenyl)sulfonyl]-2-[2-[(2R,5S)-4-[(4-Eluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]- (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]- (CA INDEX NAME)

Absolute stereochemistry.

RN 519174-00-6 CAPLUS CN Benzeneacetamide, 5-bromo-2-[2-[4-(14-fluoropheny1)methy1]-1-piperaziny1]-2-oxoethoxy]-N-(methylsulfony1)- (CA INDEX NAME)

519174-01-7 CAPLUS

CR | Senzeneacetamide, 5-chloro-2-[2-[(2R)-4-((4-fluorophenyl)methyl]-2-methyl-1-plperazinyl]-2-oxocthoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 519174-02-8 CAPLUS CN Benzeneacetamide, 5-bromo-2-[2-[(2R)-4-[(4-fluorophenyl)methyl]-2-methyl-1-

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 519174-05-1 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(2-fluorophenyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

519174-06-2 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(4-methylphenyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

519174-07-3 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,58)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

519174-08-4 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(propylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-11-9 CAPLUS
Benzeneacetamide, 4-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-12-0 CAPLUS

NN 19379-1-0 CAPOS

(N) Benzeneacetanide,
4-chloro-2-[2-[(2R)-4-[(4-fluorophenyl)methyl]-2-methyl1-piperazinyl]-2-oxoethoxyj-N-(methylsulfonyl)- (CA INDEX NAME)

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(phenylmethyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

519174-18-6 CAPLUS

The Description of the Company of th

Absolute stereochemistry.

519174-19-7 CAPLUS
Benzeneacetandide, 5-chloro-2-[2-[(2R)-4-[(3,4-difluoropheny1)methy1]-2-methy1-1-piperaziny1]-2-oxoethoxy]-N-(methy1sulfony1)- (CA INDEX NAME)

Absolute stereochemistry.

RN 519174-20-0 CAPLUS
CN Benzeneacetamide,
5-chloro-2-[2-[(2R)-2-ethyl-4-[(4-fluorophenyl)methyl]-1-

L7 ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.

519174-13-1 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(3,4-difluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

 $\label{eq:continuous} \begin{array}{lll} & \texttt{519174-14-2} & \texttt{CAPLUS} \\ & \texttt{Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-chlorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- & (CA INDEX NAME) \\ & \texttt{CAPLUS} & \texttt{CAP$ 

Absolute stereochemistry.

RN 519174-16-4 CAPLUS

ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

CN Benzeneacetamide, 5-bromo-2-[2-[(2R)-2-ethy]-4-[(4-fluorophenyl)methyl]-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-22-2 CAPLUS
Benzeneacetamide, 2-[2-[(2R)-2-ethyl-4-[(4-fluorophenyl)methyl]-1-piperazinyl]-2-oxoethoxy]-5-methyl-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:387265 CAPLUS 2004:387265 CAPLUS 140:391297 DOCUMENT NUMBER: TITLE: Preparation of piperazine derivatives as CCR1 Preparation of piperazine derivatives as CCRI antagonists
Blumberg, Laura Cook; Brown, Matthew Frank; Gaweco, Anderson See; Gladue, Ronald Paul; Hayward, Matthew Merrill; Lundquiat, Gregory Dean; Poss, Christopher Stanley; Shavnya, Andre
Pfizer Products Inc., USA
PCT Int. Appl., 131 pp.
CODEN: PIXXD2 INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE WO 2004039376 A1 20040513 WO 2003-IB4612 20031020 AU 2003269364 A1 20040525 AU 2003-269364 20031020 BR 2003015777 BR 2003-15777 20031020 Α 20050913 EP 2003-751145 20031020 EP 1583533 20051012 A1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK JP 2006506391 T 20060223 JP 2004-547876 20031020 SE, MC, PT, MX 2005004650 А 20050608 MX 2005-4650 20050429 PRIORITY APPLN. INFO.: US 2002-422590P P 20021030 WO 2003-TB4612 W 20031020

ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) oxoethoxy]phenyl]acetyl]methanesulfonamide 519174-03-9P ANSWER 5 OF TAPLOS COFFRENCE ACS ON CONCERNORS JPHEND ACS ON CONCERNORS JPHEND ACS OF TAPLOS ACS OF

MARPAT 140:391297

[[5-chloro-2-[2-[4-(4-fluorobenzyl)-(2R,58)-2,5-dimethylpiperazin-1-yl]-2oxoethoxy]phenyl]acety]]amide 519174-08-4P
519174-11-9P 519174-12-0P,
(R)-N-[[4-chloro-2-[2-[4-(4-fluorobenzyl)-2-methylpiperazin-1-yl]-2oxoethoxy]phenyl]acety]]methanesulfonamide 519174-13-1P
519174-14-2P 519174-16-4P 519174-18-6P,
(R)-N-[5-chloro-2-[2-[4-(4-chlorobenzyl)-2-methylpiperazin-1-yl]-2oxoethoxy]phenyl]acety]]methanesulfonamide 519174-19-7P,
(R)-N-[5-chloro-2-[2-[4-(3-(4-difluorobenzyl)-2-methylpiperazin-1-yl]-2oxoethoxy]phenyl]acety]]methanesulfonamide 519174-20-0P,
(R)-N-[5-chloro-2-[2-[2-ethyl-4-(4-fluorobenzyl)-piperazin-1-yl]-2oxoethoxy]phenyl]acety]]methanesulfonamide 519174-22-2P,
(R)-N-[5-Bromo-2-[2-[2-ethyl-4-(4-fluorobenzyl)piperazin-1-yl]-2oxoethoxy]phenyl]acety]methanesulfonamide 519174-22-2P,
(R)-N-[5-Exhyl-4-(4-fluorobenzyl)piperazin-1-yl]-2oxoethoxy]phenyl]acety]]methanesulfonamide
RL: PAC (Pharmacological activity); SFN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses) (Uses)
(prepn. of substituted N-acylpiperazine derivs. as CCR1 antagonists)
519172-07-7 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

OTHER SOURCE(S): GI

519172-37-3 CAPLUS
3-Pyridineacetamide,
chloro-2-[2-[(2R,5S)]-4-[(4-fluorophenyl)methyl]-2,5dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

$$(\mathbb{R}^1)_{\underline{a}} \qquad (\mathbb{R}^3)_{\underline{c}} \qquad (\mathbb{R}^5)_{\underline{p}} \qquad (\mathbb{R}^5)_{\underline{p}}$$

Title compds. I [a = 0-5; b,c = 0-2; p = 0-4; X = 0, S, CH2, (un)substituted amino; Y = (hetero)ary1; R1 = H, OH, halo, alky1, alkoxy, etc.; R2-3 = H, oxo, (cyclo)alky1, ary1, etc.; R4 = alky1, etc.; R5 = H, OH, halo, CN, etc.] are prepared For instance, (2R,5S)-1-(4-fluorobenzy1)-2,5-dimethylpiperazine (preparation given) is reacted with 7-methylchroman-2-one (PhMe, reflux 48 h), the resulting propanone treated with bromoacetic acid Me ester (THF, NaH) and the ester saponified to give II. All example compds. have LCS0 < 10 µM in the chemotaxis assay. I are useful for treating or preventing a disorder or condition that can be treated or prevented by antagonizing the CCR1 receptor In a mammal.

139172-07-7P, N-[[5-Chloro-2-[2-[4-(4-fluorobenzy1)-(2R,5S)-2,5-dimethylpiperazin-1-y1]-2-oxoethoxy]phenyl]acetyl]methanesulfonamide 519172-37-3P, N-[[5-Chloro-2-[2-[4-(4-fluorobenzy1)-(2R,5S)-2,5-

dimethylpiperazin-1-yl]-2-oxoethoxy]pyridin-3-yl]acetyl]methanesulfonamide
519173-91-2P 519173-92-3P,
N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)piperazin-1-yl]-2oxoethoxy]phenyl]acetyl]methanesulfonamide 519173-93-4P
519173-94-5P 519173-95-6P 519173-96-7P
519173-97-8P 519173-98-9P 519174-00-6P,
N-[[5-Bromo-2-[2-[4-(4-fluorobenzyl)piperazin-1-yl]-2oxoethoxy]phenyl]acetyl]methanesulfonamide 519174-01-7P,
(R)-N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)-2-methylpiperazin-1-yl]-2oxoethoxy]phenyl]acetyl]methanesulfonamide 519174-02-8P,
(R)-N-[[5-Bromo-2-[2-[4-(4-fluorobenzyl)-2-methylpiperazin-1-yl]-2-

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

519173-91-2 CAPLUS

Benzeneacetamide, 5-bromp-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519173-92-3 CAPLUS

RN 5191/3-92-3 CAFBOO CN Benzeneacetamide, 5-chloro-2-[2-[4-[(4-fluorophenyl)methyl]-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

519173-93-4 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,58)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-piperazinyl]-2-oxoethoxy]-N-[(trifluoromethyl)sulfonyl]- (CAINDEX NAME)

Absolute stereochemistry.

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

519173-94-5 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(4-fluorophenyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 519173-95-6 CAPLUS
CN Benzeneacetamide,
2-[2-[(2R,58)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1piperazinyl]-2-oxoethoxy]-4-methoxy-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 519174-00-6 CAPLUS CN Benzeneacetamide, 5-bromo-2-[2-[4-(14-floropheny1)methy1]-1-piperaziny1]-2-oxoethoxy]-N-(methylsulfony1)- (CA INDEX NAME)

519174-01-7 CAPLUS

RN 5191/4-U1-7 CAPLUS
CN Benzenacetamide,
5-chloro-2-[2-[(2R)-4-[(4-fluorophenyl)methyl]-2-methyl1-piperazinyl]-2-oxocethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-02-8 CAPLUS

RN 5191/4-02-8 CAPLOS
CN Benzeneacetamide,
5-bromo-2-[2-[(2R)-4-[(4-fluorophenyl)methyl]-2-methyl-1piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 519173-96-7 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(phenylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519173-97-8 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(2-methylphenyl)sulfonyl]- (CA INDEX NAME)

519173-98-9 CAPLUS
Benzeneacetamide, 5-chloro-N-(ethylsulfonyl)-2-[2-[(2R,58)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]- (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

519174-03-9 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(4-methoxyphenyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

519174-04-0 CAPLUS Benzeneacetamide, 5-chloro-N-[(2-chlorophenyl)sulfonyl]-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]- (CA INDEX NAME)

Absolute stereochemistry.

519174-05-1 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(2-fluorophenyl)sulfonyl]- (CA

ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.

519 74-06-2 CAPLUS
Ben eneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimcthyl-1-piperazinyl]-2-oxoethoxy]-N-[(4-methylphenyl)sulfonyl]- (CA INDIX NAME)

519174-07-3 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,58)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.

519174-13-1 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(3,4-difluorophenyl)methyl]-2,5-dimethyl-1-piperazinvl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-14-2 CAPLUS Benzeneacetamide, 5-chloro dimethyl-1-piperazinyl]-2-2-[2-[(2R,5S)-4-[(4-chloropheny1)methy1]-2,5-xoethoxy]-N-(methylsulfony1)- (CA INDEX NAME)

Absolute stereochemistry.

519174-16-4 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,58)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(phenylmethyl)sulfonyl]- (CA INDEX NAME)

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

 $\label{eq:capture} \begin{array}{lll} & \texttt{519174-08-4} & \texttt{CAPLUS} \\ & \texttt{Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-\texttt{fluorophenyl})methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(propylsulfonyl)- & (CA INDEX NAME) \\ & \texttt{CAPLUS} & \texttt{CAP$ 

Absolute stereochemistry.

519174-11-9 CAPL Benzeneacetamide, #-chloro-2-[2-[(2R,5S)-4-[(4-fluoropheny1)methy1]-2,5-dimethyl-1-piperaz nyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry

519174-12-0 CAPLUS

ON Denzeneacetanide,
4-chloro-2-[2-[(2R)-4-((4-fluorophenyl)methyl]-2-methyl1-piperazinyl]-2-oxoethoxyj-N-(methylsulfonyl)- (CA INDEX NAME)

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN Absolute stereochemistry. (Continued)

RN 519174-18-6 CAPLUS
CN Benzeneacetamide,
5-chloro-2-[2-[2], A-4-[(4-chlorophenyl)methyl]-2-methyl1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-19-7 CAPLUS
Benzeneacetamide, 5-chlorp-2-[2-[(2R)-4-[(3,4-difluorophenyl)methyl]-2-methyl-1-piperazinyl]-2-okoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-20-0 CAPLUS
Benzeneacetamide,
loro-2=[2-[(2R)-2-ethyl-4-[[4-fluorophenyl)methyl]-1piperazinyl]-2-oxoethoxy]-4-(methylsulfonyl)- (CA INDEX NAME)

(Continued)

(Continued)

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 519174-21-1 CAPLUS
CN Benzeneacetamide,
5-bromo-2-[2-[(2R)-2-ethyl-4-[(4-fluorophenyl)methyl]-1piperazinyl]-2-oxoethoxy]-N (methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-22-2 CAPLUS
Benzeneacetamide, 2-[2-[(2E -2-ethyl-4-[(4-fluorophenyl)methyl]-1piperazinyl)-2-oxethoxy]-5-methyl-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

OS.CITING REF COUNT:

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

REFERENCE COUNT:

(1 CITINGS)
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L7 ANSWER 6 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:80685 CAPLUS

DOCUMENT NUMBER: 140:146011

Preparation of bicyclic piperidine derivatives as antagonists of the CCR1 chemokine receptor

Blumberg, Laura Cook; Brown, Matthew Frank; Hayward, Matthew Merrill; Poss, Christopher Stanley

PATENT ASSIGNEE(S): Pfizer Products Inc., USA

SOURCE: PCT Int. Appl., 90 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Patent

English

FAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

		TENT :				KIN		DATE			APPLICATION NO.									
										WO 2003-IB3155										
-			CO, GM, LS, PH, TZ,	CR, HR, LT, PL, UA,	CU, HU, LU, PT, UG,	CZ, ID, LV, RO, US,	DE, IL, MA, RU, UZ,	DK, IN, MD, SC, VC,	DM, IS, MG, SD, VN,	DZ, JP, MK, SE, YU,	EC KE MN SG ZA	, BG, , EE, , KG, , MW, , SK,	ES, KP, MX, SL, ZW	FI, KR, MZ, TJ,	GB, KZ, NI, TM,	GD, LC, NO, TN,	GE, LK, NZ, TR,	GH, LR, OM, TT,		
	CA	RW:	KG, FI, BF,	KZ, FR, BJ,	MD, GB, CF,	RU, GR, CG,	TJ, HU,	TM, IE, CM,	AT, IT, GA,	BE, LU, GN,	BG MC GQ	, TZ, , CH, , NL, , GW, 2003-	CY, PT, ML,	CZ, RO, MR,	DE, SE, NE,	DK, SI, SN,	EE, SK, TD,	ES, TR, TG		
_	AU	J 2003281527				A1		2004	0209		AU	2003-	2815	27		2	0030	707		
	BR	2003012699			A		2005	0426		BR	2003-	1269	9		2	0030	707			
	EP	1525	201			A1		2005	0427		EP	2003-	7410	07		2	0030	707		
	CN	R: 1668	IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, IT, , TR, 2003-	BG,	CZ,	EE,	HU,	SK			
_	JP	2005	5338	45		T 200			051110			JP 2004-522638				20030				
_	US	2004	0063	688		A1		2004	40401 U			US 2003-616843				2	0030	708		
	IN	2004	DNO4	155		A		2005	0401		IN	2004-	DN41	55		2	0041	228		
_	MΧ	2005	0007	57		A		2005	0419		ΜX	2005-	75 7			2	0050	118		
	RIT:	APP	LN.	INFO	. :						US	2002-	3972	63P		P 2	0020	718		
_											WO	2003-	IB31	55		W 2	0030	707		
	R S	DURCE	(S):			MAR	PAT	140:	1460	11										

L7 ANSWER 6 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

$$\begin{bmatrix} R^5 \\ O_{\mathbf{c}_{\mathbf{W}}} & Z \\ \begin{bmatrix} R^6 \end{bmatrix}_{\mathbf{b}} & R^4 \end{bmatrix}_{\mathbf{R}^4} \begin{bmatrix} R^2 \\ Y \end{bmatrix}$$

The title compds. [I; a = 1-5; b = 0-4; c = 0-1; Q = alkyl; W = aryl, heteroaryl; Y = 0, NH, N(alkyl); Z = 0, NH, N(alkyl), N(acetyl); Rl = H, halo, CN, NO2, etc.; R2, R3 = H, alkyl, haloalkyl; R4 = alkylene, (CR2) xo(CR2) xo(CR2) xo(CR2) xo(CR2) xo(CR2) xo(CR2) xo(CR2) xo(CR3) xo(CR3

(trans)-5-chloro-2-(2-[3-(4-fluorophenoxy)-8-aza-bicyclo[3.2.1]cct-8-yl]-2oxoethoxy|benzamide was given. All exemplified compds. I had IC50 of <10
µM in the chemotaxis assay. Pharmacutical composition comprising the
compound I is claimed.

1 652146-64-0P 652147-08-5P 652147-89-2P
653599-92-9P
BLIPAC (Pharmacological activity): SPN (Symthetic preparation): THU

655399-92-9F RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

es) (preparation of bicyclic piperidine derivs. as antagonists of the CCR1

(preparation of bicyclic piperidine derivs. as antagonists of the CC chemokine receptor) 652146-64-0 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(3-endo)-3-(4-flworophenoxy)-8-azabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Relative stereochemistry

652147-08-5 CAPLUS
Benzeneacetamide, 5-bromo-2-[2-[(3-exo)-3-(4-fluorophenoxy)-8-azabicyclo[3.2.1]oct-8-yl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

ANSWER 6 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

652147-89-2 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(7-endo)-7-(4-fluorophenoxy)-3-oxa-9-azabicyclo[3.8.1]non-9-yl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Relative stereochemistry.

65359-92-9 CPLUS
Benzeneacetamie, 5-chloro-2-[2-[(3-exo)-3-(4-fluorophenoxy)-8azabicyclo[3.2][]oct-8-yl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX 653599-92-9 NAME)

Relative stereochemistry.

OS.CITING REF COUNT: RECORD 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS

L7 ANSWER 7 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2004:80652 CAPLUS

DOCUMENT NUMBER:

PLUS COPYRIGHT 2010 ACS on STN 2004:80552 CAPLUS 140:146007
Preparation of piperidinylketones as as selective inhibitors of macrophage inflammatory protein 1α (MIP-1α) binding to CCR1 chemokine receptors. Blumberg, Laura Cook; Brown, Matthew Frank; Hayward, Matthew Merrill; Poss, Christopher Stanley Pfizer Products Inc., USA PCT Int. Appl., 62 pp. CODEN: PIXXD2 Patent English 1

INVENTOR(S): PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.							DATE				LICAT								
															20030707				
	W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	вв,	BG,	BR,	BY,	BZ,	CA,	CH,	C		
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	G		
											KG,								
											MW,								
											SK,		TJ,	TM,	TN,	TR,	Т		
	RW.										TZ,		ZM.	ZM.	AM.	AZ.	В		
											CH,								
		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	Т		
											GW,								
CA	2492	651			A1		2004	0129		CA :	2003-	2492	651		2	0030	70		
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	2005						2001	0203			2000				_	0000	, ,		
EP	1534	677			A1		2005	0601		EP :	2003-	7652	30		2	0030	70		
	R:										IT,						F		
BR	2003										2003-					0030	70		
2011	2000	0100					2000								_		, ,		
$_{\rm CII}$	1668	592			A		2005	0914		CN :	2003-	8170	92		2	0030	70		
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JP	2005	5372	79		T		2005	1208		JP :	2004-	5226	01		2	0030	70		
US	2004	0063	759		A1		2004	0401		us :	2003-	6168	44		2	0030	70		
IN	2004	DNO4	166		A		2007	0511		IN 3	2004-	DN41	66		2	0041	22		
															_				
ZA	2005	0000	67		A		2005	1102		ZA :	2005-	67			2	0050	10		
MX	2005	0003	80		A		2005	0331		MX :	2005-	380			2	0050	10		
RITY	APP	LN.	INFO	.:						US 3	2002-	3971	08P		P 2	0020	71		
											2003-	TB28	7h		w 2	0500	7.0		

L7 ANSWER 6 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (5 CITINGS)
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT: FORMAT

ANSWER 7 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

$$\mathbb{R}^{7}\mathbb{Q}_{p}$$
 $\mathbb{R}^{6}$ 
 $\mathbb{R}^{4}$ 
 $\mathbb{R}^{2}$ 
 $\mathbb{R}^{5}$ 
 $\mathbb{R}^{1}$ 
 $\mathbb{R}^{1}$ 
 $\mathbb{R}^{1}$ 
 $\mathbb{R}^{1}$ 

= H, halo, cyano, NO2, CF3, OCF3, alkyl, OH, alkylcarbonyloxy, alkoxy; R2-R5

= H, (halo)alkyl; R6 = H, halo, (halo)alkyl, cyano, alkoxy,

= B, (halo)alkyl; R6 = H, halo, (halo)alkoxy; R7 = H, halo, (halo)alkyl, carboxy, alkylcarbonyl, (halo)alkoxy; R7 = H, halo, (halo)alkyl, dialkylaminoalkylaminoarbonyl, ureido, aminosulfonyl, alkylsulfonylaminoalkylamino, aminosulfonylamino, heteroaryloxy, ureidoalkylaminoarbonyl, etc.; ≥1 of R2-R5 = alkyl], were prepared Thus, 2-(2-amino-4-chlorophenoxy)-1-[4-(4-fluorophenoxy)piperidin-1-yl]ethanone (preparation given) in CH2Cl2 was treated

treated with Et3N and Ph chloroformate, The reaction was stirred at ambient temperature

for 4 h, concentrated in vacuo, and the resulting residue dissolved in methanol

methanol followed by bubbling in ammonia gas for 10 min and stirred overnight at ambient temperature to give [5-chloro-2-[2-[4-(4-fluorophenoxy)piperidin-1-y1]-2-oxoethoxy]pheny]lurea. I inhibited chemotaxis with IC50 <10 µM.

IT 651301-03-0P 651301-07-49.

N-[5-Chloro-2-[2-[4-(4-fluorophenoxy)piperidin-1-y1]-2-oxoethoxy]phenyl]acetyl]methanesulfonamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(uses) (preparation of piperidinylketones as as selective inhibitors of macrophage inflammatory protein 1α (MIP-1α) binding to CCR1 chemokine

inflammatory protein 1a (MIP-1a) binding to CCR1 chemokine receptors) 651301-03-0 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R, 48,5S)-4-(4-fluorophenoxy)-2,5-dimethyl-1-piperidinyl]-2-oxoethoxy]-N-(methylsulfonyl)-, rel- (CA INDEX NAME)

Relative stereochemistry.

L7 ANSWER 7 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

01-07-4 CAPLUS eneacetamide, 5-chloro-2-[2-[4-(4-fluorophenoxy)-1-piperidiny1]-2-thoxy]-N-(methylsulfony1)- (CA INDEX NAME)

L7	ANSWER 8 OF 109 IN 2004KN01967	CAPLUS A	COPYRIGHT 201 20061103	0 ACS on STN IN 2004-KN1967	(Continued) 20041221
<	US 20060287536	A1	20061221	US 2006-515403	20060125
PRIO	US 7601850	B2	20091013	US 2002-384151P	P 20020529
				WO 2003-US14539	W 20030522

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 140:27753

II AB

The present invention relates to novel, nonsecosteroidal, phenylalkyl thiophene compds. (shown as I; variables defined below; e.g.

3'-[4-(2-oxo-3,3-dimethylbutoxy)-3-methylphenyl]-3'-[5-(methyl)thiophen-2-yl]pentane (II)) with vitamin D receptor (VDR) modulating activity that are less hypercalcemic than 1a,25 dihydroxy vitamin D3. These compds are useful for treating bone disease and psoriasis. For I: R and R' = C1-C5 alkyl, C1-C5 fluoroalkyl, or together R and R' form a (un)substituted, (un)saturated carbocyclic ring having 3-8 C

atoms; ring atoms Q1 and Q2 = C or S, with the proviso that one atom is S and the other atom is C; RP and RT = H, halo, C1-C5 alkyl, C1-C5 fluoroalkyl, -0-C1-C5 alkyl, -8-C1-C5 alkyl, -0-C1-C5 fluoroalkyl, -CN, -NO2, acetyl, -8-C1-C5 fluoroalkyl, C2-C5 fluoroalkyl, C3-C5 cycloalkyl, and C3-C5 cycloalkyl, LP and LT are divalent linking bond, -(CH2)mC(X1)-

= O, S; m = 0-2), -(CH2)mCH(OH)-, etc.;  $\mathbb{Z}P$  and  $\mathbb{Z}T = H$ ,  $\mathbb{P}h$ , benzyl, fluorophenyl, C1-C5 alkyl, etc.; addnl. details including provisos are given in the claims. Although the methods of preparation are not

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2003:972066 CAPLUS 140:27753
Preparation of phenylalkyl thiophene-type vitamin D receptor modulators for treating bone disease, psoriasis and other disorders
Dahnke, Karl Robert; Gajewski, Robert Peter; Jones, Charles David; Linebarger, Jared Harris; Lu, Jianliang; Ma, Tianwei; Nagpal, Sunil; Simard, Todd Parker; Yee, Ying Kwong; Bunel, Emilio Enrique; Stites, Ryan Edward
Eli Lilly and Company, USA
FCT Int. Appl., 504 pp.
CODEN: PIXXD2 DOCUMENT NUMBER: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT PATENT INFORMATION: English

PAT	TENT I	NO.			KIND DATE				APPLICATION NO.							DATE			
WO.	© 2003101978				A1 200312											20030522			
	*.*.		3.0		***	3.00	2.11	2.0		n n	D.C.	D.D.	73.15	DIT		C. C.	-		
	w:										BG,								
											KG.								
											MW,								
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											ZM,		10,	111,	114,	111,	11		
	DW.										TZ.		2M	750	a M	37	D.		
	1/11										CH,								
											NL,								
											GW,								
CA	2485										2003-								
AU	2003	2335	05		A1		2003	1219		AU 2	2003-	2335	05		2	0030	522		
AU	2003:	2335	0.5		В2		2009	0423											
BR	2003	0099			A		2005	0222		BR 2	2003-	9983			2	0030	522		
EP	1511	740			A1		2005	0309		EP 2	2003-	7287	82		2	0030	522		
ED	1511	740			B1		2009	0708											
		AT,				DK,	ES,	FR,			IT,						P'		
				LT,							TR,								
CN	1656	089			A		2005	0817		CN 2	2003-	8121	98		2	0030	522		
	1004	71.05	_																
	2005						2009			TD (	2004-	F006			2	0020	F 0 /		
UP	2005	0020	40		1		2005	1027		UP a	.004-	3096	03			0030	320		
ΑT	4358	56			T		2009	0715		AT 2	2003-	7287	82		2	0030	522		
re	2327	629			Т3		2009	1102		re ·	2003-	7207	02		2	0030	500		
ES	65611	023			13		2003	1102		E0 4	.003-	1201	02			0030	260		
MX	2004	0119	03		A		2005	0331		MX a	2004-	1190	3		2	0041	12:		

ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) .apprx.180 example prepns. are included. For example, II was prepd. in 7 steps starting from 2-hydroxy-5-bromotoluene and tert-butyldimethylsilyl chloride and involving intermediates 2-(tert-Butyldimethylsilyloxy)-5-bromotoluene, 3'-[4-(tert-Butyldimethylsilyloxy)-3-methylphenyl]pentan-3-o1, 3'-[4-(Bydroxy)-3-methylphenyl]-3'-[4-(methyl)thiophen-2-yl]pentane, 3'-[4-(Benzyloxy)-3-methylphenyl]-3'-[4-(methyl)thiophen-2-yl]pentane, 3'-[4-(Benzyloxy)-3-methylphenyl]-3'-[5-(methoxycarbonyl)-4-(methyl)thiophen-2-yl]pentane, and

3'-[4-(Hydroxy)-3-methylphenyl]-3'-[5-(methoxycarbonyl)-4-(methyl)thiophen-2-yl]pentane with yields of 97, 72, 95, 92, 54, 100 and 85, resp.
Results are tabulated for many of the example I for the following assays: RXR-VDR heterodimerization (Sa05-2 cells), VDR co-transfection (Caco-2 cells), osteocalcin promotor, mouse hypercalcemia, keratinocyte proliferation, and

IL-10 induction; e.g. one enantiomer of 1-[4-[1-ethyl-1-(5-hydroxymethyl-4-methylthiophen-2-yl)propyl]-2-methylphenoxy]-3,3-dimethylbutan-2-ol exhibits an EC50 = 2.8 nM in the RXR-VDR assay compared to 3 nM for the control calcipotriol. 633341-19-2P 633341-20-5P 633341-21-6P 633341-22-9P 633341-22-9P 633341-27-2P 633341-28-9P 633341-27-2P 633341-28-3P 633341-28-3P 633341-33-0P 633341-33-0P 633341-31-8P 633341-34-1P 633344-85-1P 633344-88-4P 633341-32-9P 633341-35-2P 633344-86-2P 633344-89-5P 633341-33-0P 633341-36-3P 633344-87-3P 633344-92-0P 633344-95-3P 633344-98-6P 633345-01-4P 633344-91-9P 633344-93-1F 633344-91-9P 633344-94-2P 633344-97-5P 633345-00-3P 633344-96-4F 633344-99-7E 633345-02-5F 633350-14-8P 633350-17-1P 633350-20-6P 633350-23-9P 633350-15-9P 633350-18-2P 633350-21-7P 633350-16-0P 633350-19-3P 633350-24-0F 633350-26-2P 633350-29-5P 633350-27-3P 633350-30-8P 633353-97-6P 633354-00-4P 633350-31-9F 633353-96-5P 633353-99-8P 633353-98-7F 633354-01-5F 633354-02-6P 633354-05-9P 633354-08-2P 633354-11-7P 633354-03-7P 633354-06-0P 633354-09-3P 633354-12-8P 633354-04-8F 633354-07-1F

cosstd=11-/P 633354-12-8P 633354-13-9P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (USes)

(Uses)
(drug candidate; preparation of phenylalkyl thiophene-type vitamin D
receptor modulators for treating bone disease, psoriasis and other
disorders)
633341-19-2 CAPLUS
2-Thiopheneacetamide,
[-[4-(4,4-dimethyl-3-oxopentyl)-3-methylphenyl]-1ethylpropyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633341-20-5 CAPLUS 2-Thiopheneacetamide, 3-[1-ethyl-1-[4-(3-hydroxy-4,4-dimethylpentyl)-3-methylphenyl]propyl]-N (ethylsulfonyl)-3-methyl- (CA INDEX NAME)

CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3 4,4-trimethylpentyl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633341-22-7 CAPLUS

vous-rear CAPIUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[3-methyl-4-(2,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 633341-23-8 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl\_1-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl-(CA INDEX NAME)

633341-24-9 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,3,4,4-teramethylpentyl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl-

633341-25-0 CAPLUS

NN 03341-23-0 CAPLOS

CON 2-Thiopheneacetamide,

5-[1-[4-(4,4-dimethyl-3-oxopentyl)-3-methylphenyl]-1ethylpropyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633341-26-1 CAPLUS
2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-4,4-dimethylpentyl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633341-27-2 CAPLUS

ON 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-hydroxy-3,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633341-28-3 CAPLUS

003041-20-3 CAPUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[3-methyl-4-(2,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 633341-29-4 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-hydroxy-2, 4,4-trimethylpentyl)-3methylpenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633341-30-7 CAPLUS

633341-30-7 CAPLUS
2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,3,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633341-31-8 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-[4-(4,4-dimethyl-3-oxopentyl)-3-methylphenyl]-1-ethylpropyl]-3-methyl- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633341-32-9 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-4,4-dimethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

633341-33-0 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-3,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA

633341-34-1 CAPLUS voloqu-sq-1 CAFLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[3-methyl-4-(2,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-3-methyl- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 633344-86-2 CAPLUS
CN Benzeneacetamide,
4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

$$\begin{array}{c} \text{OH} \\ \text{t-Bu-CH-CH}_2\text{-CH}_2 \\ \end{array}$$

633344-87-3 CAPLUS
Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-3,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

RN 633344-88-4 CAPLUS
CN Benzeneacetamide,
4-[1-ethyl-1-[4-methyl-5-(2,4,4-trimethyl-3-oxopentyl)-2thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

$$\begin{array}{c|c} & Me & Me \\ t-Bu-C-CH-CH_2 & Et & CH_2-C-NH-S-Et \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\$$

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

 $\begin{array}{lll} 63341-35-2 & \text{CAPLUS} \\ 2-\text{Thiopheneacetamide}, & \mathbb{N}-[\ (1,1-\text{dimethylethyl})\,\text{sulfonyl}]-5-[1-\text{ethyl-1-}[4-(3-\text{hydroxy-2,4,4-trimethylpentyl})-3-\text{methylphenyl}]\,\text{propyl}]-3-\text{methyl-} \end{array}$ 

633341-36-3 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-2,3,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

633344-85-1 CAPLUS

CR Benzeneacetamide,

4-[1-[5-(4,4-dimethyl-3-oxopentyl)-4-methyl-2-thienyl]-1ethylpropyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 633344-89-5 CAPLUS Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

RN 633344-90-8 CAPLUS
CN Benzeneacetamide,
4-[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

$$\begin{array}{c} \text{HO Me} \\ \text{t-Bu-C-CH-CH}_2 \\ \text{Me} \end{array}$$

RN 633344-91-9 CAPLUS
CN Benzeneacetamide,
4-[1-[5-(4,-d-dimethyl-3-oxopentyl)-4-methyl-2-thienyl]-1ethylpropyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633344-92-0 CAPLUS Benzeneacetamide, -ethyl-l-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633344-93-1 CAPLUS Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-3,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

$$\begin{array}{c} \text{OH} \\ \text{t-Bu-C-CH}_2\text{-CH}_2\\ \text{Me} \end{array}$$

RN 633344-94-2 CAPLUS
CN Benzeneacetamide,
4-[1-ethyl]-1-[4-methyl]-5-(2,4,4-trimethyl]-3-oxopentyl)-2thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633344-95-3 CAPLUS Benzeneacetamide, 4=[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

RN 633344-96-4 CAPLUS
CN Benzeneacetamide,
4[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4methyl-2-thienyl]propyl]-2-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

OND STATE OF THE PROPERTY OF T

$$\begin{array}{c} \overset{\text{Me}}{\underset{\text{t-Bu-C-CH}_2-\text{CH}_2-\text{CH}_2}{\text{CH}_2-\text{C-NH}}} \overset{\text{Me}}{\underset{\text{Et}}{\text{CH}_2-\text{C-NH}}} \overset{\text{Me}}{\underset{\text{o}}{\text{CH}_2-\text{C-NH}}} \overset{\text{Me}}{\underset{\text{o}}{\text{CH}_2-\text{C-NH}}} \overset{\text{Me}}{\underset{\text{o}}{\text{CH}_2-\text{C-NH}}} \overset{\text{Me}}{\underset{\text{o}}{\text{CH}_2-\text{C-NH}}} \overset{\text{Me}}{\underset{\text{o}}{\text{CH}_2-\text{C-NH}}} \overset{\text{Me}}{\underset{\text{o}}{\text{CH}_2-\text{C-NH}}} \overset{\text{Me}}{\underset{\text{o}}{\text{C-NH}}} \overset{\text{Me}}{\underset{\text{o}}{\text{o}}} \overset{\text{Me}}{\underset{\text{o}}} \overset{\text{Me}}{\underset{\text{o}}$$

633344-98-6 CAPLUS Benzeneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

$$\begin{array}{c} \text{OH} \\ \text{t-Bu-CH-CH}_2\text{-CH}_2 \\ \text{S} \\ \text{Et} \\ \end{array}$$

633344-99-7 CAPLUS Benzeneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-4-[1-ethyl-1-[5-(3-hydroxy-3,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl- (CA INDEX NAME)

633345-00-3 CAPLUS

NN 63333-00-3 CAFBSS
CN Benzeneacetamide,
N-[(1,1-dimethylethyl)sulfonyl]-4-[1-ethyl-1-[4-methyl-5(2,4,4-trimethyl-3-oxopentyl)-2-thienyl]propyl]-2-methyl- (CA INDEX

633345-01-4 CAPLUS Benzeneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-4-[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633345-02-5 CAPLUS
Benzeneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-4-[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-(CA INDEX NAME)

633350-14-8 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methylpentyl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

RN 633350-15-9 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methyl-pentyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

$$\begin{array}{c|c} & & & & & & \\ & & & & & \\ Et - S - NH - C - CH_2 & S & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN 633350-16-0 CAPLUS (Continued)

CA INDEX NAME)

Name of the control of the control

633350-17-1 CAPLUS 2-Thiophemeactamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633350-18-2 CAPLUS

CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-penten-1-yl)-3-methylphenyl]propyl]-N-[ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633350-19-3 CAPLUS

NN 63330-19-3 CAPLOS

(CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-pentyn-1-yl)-3methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633350-20-6 CAPLUS
2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methylpentyl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633350-21-7 CAPLUS

CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633350-22-8 CAPLUS

NN 03330-2-0 CAPLOS

CN 2-Thiopheneacetamide,

5-[1-ethyl-1-(4-(3-hydroxy-3-methyl-1-pentyn-1-yl)-3methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633350-23-9 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

633350-24-0 CAPLUS

NN 03330-2-1 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-pentyn-1-y1)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633350-26-2 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-3-methylpentyl)-3-methylphonyl]propyl]-3-methyl- (CA INDEX NAME)

633350-27-3 CAPLUS

2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

633350-28-4 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-pentyn-1-yl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN 633350-29-5 CAPLUS

633350-29-5 CAPLUS
2-Thiophenacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

 $\begin{array}{lll} 633350-30-8 & \text{CAPLUS} \\ 2-\text{Thiopheneacetamide, N-}[(1,1-\text{dimethylethyl})\,\text{sulfonyl}]-5-[1-\text{ethyl-1-}[4-(3-\text{ethyl-3-hydroxy-1-penten-1-yl})-3-\text{methylphenyl}]\,\text{propyl}]-3-\text{methyl-} \\ & \text{(CA} \end{array}$ 

2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-pentyn-1-yl)-3-methylphenyl]propyl]-3-methyl- (CA

INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\$$

633353-96-5 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

$$\begin{array}{c|c} & \text{Me} & & \\ & \text{Me} & & \\ & \text{CH}_2-\text{CH}_2 & & \\ & \text{CH}_2-\text{CH}_2 & & \\ & \text{Me} & & \\ \end{array}$$

RN 633353-97-6 CAPLUS
CN 2-Thiopheneacetamide,
5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethynyl]-3methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethenyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633353-99-8 CAPLUS 2-Thiophemeacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 633354-00-4 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethynyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl (CA INDEX NAME)

633354-01-5 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

633354-02-6 CAPLUS

23-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethyl]-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX

RN 633354-03-7 CAPLUS
CN 2-Thiopheneacetamide,
[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethynyl]-3methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

$$\underset{\mathrm{OH}}{\overset{\mathrm{Me}}{=}} \overset{\mathrm{Et}}{=} \overset{\mathrm{S}}{\underset{\mathrm{Et}}{\overset{\mathrm{CH}_{2}-\mathrm{C-NH}-\mathrm{S-Pr-i}}{|}}} \overset{\mathrm{O}}{\underset{\mathrm{OH}}{\overset{\mathrm{O}}{=}}} \overset{\mathrm{Pr-i}}{\underset{\mathrm{OH}}{\overset{\mathrm{CH}_{2}-\mathrm{C-NH}-\mathrm{S-Pr-i}}{|}}}$$

RN 633354-04-8 CAPLUS
CN 2-Thiopheneacetamide,
[1-e-thyl-1-[4-[2-(1-hydroxycyclopentyl)ethenyl]-3methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

 $\begin{array}{lll} 633354-05-9 & \texttt{CAPLUS} \\ 2-\texttt{Thiopheneacetamide,} & 5-[1-\texttt{ethyl-1-}[4-[2-(1-\texttt{hydroxycyclohexyl})\texttt{ethyl}]-3-\texttt{methylphenyl}] \texttt{propyl}]-3-\texttt{methyl-N-}[(1-\texttt{methylethyl})\texttt{sulfonyl}]- & \texttt{(CA INDEX Methyl)} \\ \end{array}$ 

633354-06-0 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethynyl]-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 633354-07-1 CAPLUS 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

 $633354-08-2 \quad CAPLUS \\ 2-Thiopheneacetamide, \quad N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethyl]-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)$ 

$$\bigcap_{OH} CH_2 - CH_2 - \bigcap_{Et} S CH_2 - C-NH - S-Bu-t$$

 $\begin{array}{lll} 633354-09-3 & \text{CAPLUS} \\ 2-\text{Thiopheneacetamide,} & \text{N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethynyl]-3-methylphenyl]propyl]-3-methyl- (CA ). \end{array}$ 

NAME)

$$\underset{\mathrm{OH}}{\overset{\mathrm{Me}}{\longrightarrow}} \overset{\mathrm{Et}}{\underset{\mathrm{Et}}{\longrightarrow}} \overset{\mathrm{S}}{\underset{\mathrm{CH}_{2}-\mathrm{C-NH}-\mathrm{S-Bu-t}}{\bigcirc}}$$

 $\begin{array}{lll} 633354-10-6 & \texttt{CAPLUS} \\ 2-\texttt{Thiopheneacetamide, N-[(1,1-\texttt{dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclopentyl)ethenyl]-3-methylphenyl]propyl]-3-methyl- & (CA) \\ \end{array}$ INDEX

NAME)

L7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

633354-11-7 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethyl]-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

633354-12-8 CAPLUS 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethynyl]-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

 $\begin{array}{lll} 633354-13-9 & \texttt{CAPLUS} \\ 2-\texttt{Thiopheneacetamide}, & \texttt{N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-[2-(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-3-methyl- \\ & \texttt{NAME}) \\ \end{array}$ 

ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

OS.CITING REF COUNT: RECORD THERE ARE 5 CAPLUS RECORDS THAT CITE THIS

(5 CITINGS)
THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L7 ANSWER 9 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:470991 CAPLUS
DOCUMENT NUMBER: 139:44172
Silver halide photographic material containing
methine

INVENTOR (S) .

dye and coupler Nakamura, Akio Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 70 pp. CODEN: JKXXAF Patent Japanese 1 PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2003172994	A	20030620	JP 2002-236352	20020814
<					
	JP 4166529	B2	20081015		
	US 20040038159	A1	20040226	US 2002-251841	20020923
<					
	US 6828087	B2	20041207		
	US 20050037296	A1	20050217	US 2004-927469	20040827
<					
	US 7052827	B2	20060530		
PRIO	RITY APPLN. INFO.:			JP 2001-293949 A	20010926
<					
				US 2002-251841 A1	20020923

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 139:44172

ANSWER 9 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
The material, comprising a support coated with ≥1 Ag halide
emulsion layer, contains ≥1 methine dye I (X1-2 = 0, S, Se, Te, N,
C,; Y1 = furan, pyrrole, or thiophene ring which may be condensed and/or
substituted; Y2 = atoms to form benzene ring or 5-6 membered unsatd.
heterocycle which may be condensed and/or substituted; R1-2 =
(un)substituted alkyl, aryl, heterocycle; L1-3 = methine group; n1 = 0-1;
M1 = counter ion; m1 ≥0] and ≥1 coupler selected from II
[Z1-2 = CO3, N, [01, O3 = H, monovalent group; O2 = H, coupling releasing
group; II may form dimer or polymer ] and III [O5 = (un)substituted aryl;
Q6 = (un)substituted alkyl; O7 = H, halo, alkoxy, alkyl; X = H, releasing
group by the reaction with developer oxide]. The material shows high
sensitivity and less residual color after processing.
540753-72-8 540753-74-0
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. emulsion containing methine dye sensitizer and
razolotriazole or
phenol coupler)
540753-72-8 CAPLUS
Benzothiazolium, 5-chloro-2-[[5-chloro-3, 4-dihydro-3-(3-sulfopropyl)-2Hpyrrolo[2,3-d]thiazol-2-ylidene]methyl]-3-[2-[(methylsulfonyl)amino]-2koethyl]-, inner salt (CA INDEX NAME) (CH<sub>2</sub>)<sub>3</sub> H 540753-74-0 CAPLUS m, 5-chloro-2-[2-[[5-chloro-3-(3-sulfopropy1)thieno[2,3-Benzothiazol e]methyl]-1-buten-1-yl]-3-[2-[(methylsulfonyl)amino]-ner salt (CA INDEX NAME) d]oxazol-2(3H)-ylic 2-oxoethyl]-, -03S- (CH2)3

L7 ANSWER 10 OF 109 US 7098212	CAPLUS B2	COPYRIGHT	2010 ACS on STN	(Conti	.nued)
WX 2004002423	A	20040531	MX 2004-2423		20040312
ZA 2004002090	A	20050523	ZA 2004-2090		20040316
BG 108674	A	20050430	BG 2004-108674		20040408
NO 2004001631	A	20040526	NO 2004-1631		20040421
< PRIORITY APPLN. INFO.:			US 2001-338601P	P	20011022
<			WO 2002-IB3989	W	20020926
<					
OTHER SOURCE(S):	MARPAT	138:35400	6		

The present invention relates to piperazine derivs. (shown as  ${\tt I}$ ;

ables defined below; e.g. N-[[2-[3-[4-(4-fluorobenzyl)-(2R,58)-2,5-dimethylpiperazin-1-yl]-3-oxopropyl]-5-methylphenoxylacetyl]methanesulfonamide (shown as II)) and the pharmaceutically acceptable forms thereof. Moreover, the present invention is also directed at pharmaceutical compns. comprising a bund I and a pharmaceutically acceptable carrier. Furthermore, the present invention is directed at methods of using the herein described compditions of the service of the present invention is directed at methods of using the herein described compditions.

compns. for treating or preventing a disorder or condition that can be treated or prevented by antagonizing the 15 CCR1 receptor in a mammal. For I: a=0-5; b=0-2; c=0-2; d=0-4; X=0, S, CH2, or NR6; Y=(C6-C10) ayl) or (C2-C9) heteroaryl; each RI = H, H0, halo, (C1-C8) alkyl, Each R2 and R3 = H, (C1-C8) alkyl, (C1-C8) alkyl

ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 2003:335088 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 138:354006 1381334006
Preparation of piperazine derivatives with CCR1
receptor antagonist activity
Blumberg, Laura Cook, Brown, Matthew Frank; Hayward,
Matthew Merrill; Poss, Christopher Stanley; TITLE: INVENTOR(S): Lundquist,

Gregory Dean, Jr.; Shavnya, Andrei Pfizer Products Inc., USA PCT Int. Appl., 139 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

CA CA AU		W:	AE, CO, GM, LS,	27 AG, CR,	AL,			2003				2002-						
CA AU			CO, GM, LS,	CR,		AM.			20030501			.002-	1039	20020926				
CA AU				LT,	HU, LU, RO,	CZ, ID, LV, RU,	DE, IL, MA, SD,	DK, IN, MD, SE,	DM, IS, MG, SG,	DZ, JP, MK, SI,	EC, KE, MN, SK,	BG, EE, KG, MW, SL,	ES, KP, MX,	FI, KR, MZ,	GB, KZ, NO,	GD, LC, NZ,	GE, LK, OM,	GH, LR, PH,
CA AU		RW:	GH, KG, FI,	GM, KZ, FR, CI,	KE, MD, GB, CM,	LS, RU, GR, GA,	MW, TJ, IE, GN,	TM, IT, GQ,	SD, AT, LU, GW,	SL, BE, MC, ML,	SZ, BG, NL, MR,	TZ, CH, PT, NE,	CY, SE, SN,	CZ, SK, TD,	DE, TR, TG	DK, BF,	EE, BJ,	ES, CF,
AU	7	2463:	272			A1		2003	0501		CA 2	2002-	2463:	272		21	0020	926
EP		2463: 2002:						2009 2003			AU 2	2002-	3374	08		21	0020	926
	)	1438:	298			A1		2004	0721		EP 2	2002-	7726	51		21	0020	926
		1438: R:	AT, IE,	BE, SI,	CH,	DE, LV,	DK, FI,	RO,	FR, MK,	GB, CY,	AL,	IT, TR,	BG,	CZ,	EE,	SK	MC,	
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BR		2002	0134	52		A		2004	1109		BR 2	2002-	1345	2		21	0020	926
HU	Ţ	2004	0017	35		A2		2005	0128		HU 2	2004-	1735			21	0020	926
		2004 1575				A3 A		2005 2005			CN 2	2002-	8208	88		21	0020	926
JP	)	2005	5079	23		Т		2005	0324		JP 2	2003-	5381	43		21	0020	926
AT	,	4565	59			T		2010	0215		AT 2	2002-	7726	51		21	0020	926
US			2024	074				2004					2736				0021	

L7 ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (HO2C)(H2N)(C1-C8)alkyl, (HO2C)[[(C1-C8)alkyl,NH](C1-C8)alkyl, (HO2C)[[(C1-C8)alkyl,NH](C1-C8)alkyl,NH](C1-C8)alkyl,NH](C1-C8)alkyl,NH](C1-C8)alkyl), (C1-C8)alkyl,NH](C1-C8)alkyl), (C1-C8)alkyl), (C1-C8)alkyl),

assay. 519172-07-7P, N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)-(2R,5S)-2,5-

dimethylpiperarin-1-yl]-2-oxoethoxy]pyridin-3-yl]acetyl]methanesulfonamide
519173-91-2P, N-[[5-Bromo-2-[2-[4-(4-fluorobenzyl)-(2R,58)-2,5dimethylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]methanesulfonamide
519173-92-3P, N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)piperazin-1-yl]2-oxoethoxy]phenyl]acetyl]methanesulfonamide
519173-93-4P,

N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)-(2R,5S)-2,5-dimethylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-C,C,C-trifluoromethanesulfonamide 519173-94-5P, N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)-(2R,5S)-2,5-dimethylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-4-fluorobenzenesulfonamide 519173-95-6P, N-[[2-[2-[4-(4-fluorobenzyl)-(2R,5S)-2,5-dimethylpiperazin-1-yl]-2-oxoethoxy]-4-methoxyphenyl]acetyl]methanesulfonamide 519173-96-7P, N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)-(2R,5S)-2,5-dimethylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]benzenesulfonamide 519173-97-8P, N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)-(2R,5S)-2,5-dimethylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-methylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]-2-oxoethoxy]phenyl]acetyl]-2-oxoethoxy]phenyl]acetyl]-2-oxoethoxy]phenyl]acetyl]-2-oxoethoxy]phenyl]acetyl]-2-oxoethoxy]phenyl]acetyl]-2-oxoethoxy]-2-oxoethoxy]phenyl]acetyl]-2-oxoethoxy]phenyl]acetyl]-2-oxoethoxy]phenyl]acetyl]-2-oxoethoxy]phenyl]-2-oxoethoxy]phenyl]-2-oxoethoxy]-2-oxoethoxy]phenyl]-2-oxoethoxy]-2-oxoe

[[5-chloro-2-[2-[4-(4-fluorobenzyl)-(2R,58)-2,5-dimethylpiperazin-1-yl]-2oxoethoxy]phenyl]acetyl]amide 519174-00-6F,
N-[[5-Brono-2-[2-[4-(4-fluorobenzyl)piperazin-1-yl]-2oxoethoxy]phenyl]acetyl]methanesulfonamide 519174-01-7P,
N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)-(2R)-2-methylpiperazin-1-yl]-2oxoethoxy]phenyl]acetyl]methanesulfonamide 519174-02-8P,
N-[[5-Brono-2-[2-[4-(4-fluorobenzyl)-(2R)-2-methylpiperazin-1-yl]-2oxoethoxy]phenyl]acetyl]methanesulfonamide 519174-03-9P,

 $\begin{aligned} &\text{N-[[5-Chloro-2-[2-[4-(4-fluorobenzy1)-(2R,5S)-2,5-dimethylpiperazin-1-y1]-2-oxoethoxy]phenyl]acetyl]-4-methoxybenzenesulfonamide} \\ &519174-04-0P, 2-Chloro-N-[[5-chloro-2-[2-[4-(4-fluorobenzy1)-(2R,5S)-2,5-dimethylpiperazin-1-y1]-2-oxoethoxy]phenyl]acetyl]benzenesulfonamide \\ &519174-05-1P, \end{aligned}$ 

 $\begin{aligned} &\text{N-[\{5-\text{Chloro-}2-\{2-\{4-(4-\text{fluorobenzy1})-(2R,58)-2,5-\text{dimethylpiperazin-}1-y1\}-2-\text{oxoethoxylphenyl]acetyl]-2-Fluorobenzenesulfonamide} \\ &519174-06-2P, &\text{N-[\{5-\text{Chloro-}2-\{2-\{4-(4-\text{fluorobenzy1})-(2R,58)-2,5-\text{dimethylpiperazin-}1-y1\}-2-\text{oxoethoxylphenyl]acetyl}-4- \end{aligned}$ 

- ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continumethylbenzenesulfonamide 519174-07-3P, Propane-2-sulfonic acid
- [[5-chloro-2-[2-[4-(4-fluorobenzyl)-(2R,58)-2,5-dimethylpiperazin-1-yl]-2-oxoethoxy]phenyllacetyllamide 519174-08-4P, Propane-1-sulfonic acid [[5-chloro-2-[2-[4-(4-fluorobenzyl)-(2R,58)-2,5-dimethylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]amide 519174-11-9P,
- N-[[5-Chloro-2-[2-[4-(3,4-difluorobenzyl)-(2R,5S)-2,5-dimethylpiperazin-1-yl]-2-oxoethoxy]phenyl]acetyl]methanesulfonamide 519174-14-2P,
- $\begin{array}{lll} & \text{N-[[5-Chloro-2-[2-[4-(4-chlorobenzy1)-(2R,5S)-2,5-dimethylpiperazin-1-y1]-2-oxoethoxy]phenyl]acetyl]methanesulfonamide} & 519174-16-4P, \end{array}$
- 2-oxoethoxy|phenyl]acety||methanesulfonamide 5191.4-16-4P,

  N-[[5-Chloro-2-[2-[4-(4-fluorobenzyl)-(2R, 5S)-2,5-dimethylpiperarin-1-yl]2-oxoethoxy|phenyl]acety||phenylmethanesulfonamide 519174-18-6P,
  N-[[5-Chloro-2-[2-[4-(4-chlorobenzyl)-(2R)-2-methylpiperarin-1-yl]-2oxoethoxy|phenyl]acety||methanesulfonamide 519174-19-7P,
  N-[[5-Chloro-2-[2-[4-(3,4-difluorobenzyl)-(2R)-2-methylpiperarin-1-yl]-2oxoethoxy|phenyl]acety||methanesulfonamide 519174-20-0P,
  N-[[5-Chloro-2-[2-[(2R)-2-ethyl-4-(4-fluorobenzyl)piperarin-1-yl]-2oxoethoxy|phenyl]acety||methanesulfonamide 519174-21-1P,
  N-[[5-Bromo-2-[2-[(2R)-2-ethyl-4-(4-fluorobenzyl)piperarin-1-yl]-2oxoethoxy|phenyl]acetyl]methanesulfonamide 519174-22-2P,
  N-[[2-[2-[(2R)-2-ethyl-4-(4-fluorobenzyl)piperarin-1-yl]-2-oxoethoxy]-5methylphenyl]acetyl]methanesulfonamide
  RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
  (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
  (Uses) (Uses)
   (drug candidate; prepn. of piperazine derivs. with CCR1 receptor
   antagonist activity)
  519172-07-7 CAPLUS
  Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

### Absolute stereochemistry.

519172-37-3 CAPLUS

ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(trifluoromethyl)sulfonyl]- (CA INDEX NAME)

# Absolute stereochemistry.

519173-94-5 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(4-fluorophenyl)sulfonyl]- (CA INDEX NAME)

# Absolute stereochemistry.

RN 519173-95-6 CAPLUS
CN Benzeneacetamide,
2-[2=[2R,55]-4=[(4-fluorophenyl)methyl]-2,5-dimethyl-1piperazinyl]-2-oxoethoxy]-4-methoxy-N-(methylsulfonyl)- (CA INDEX NAME)

# Absolute stereochemistry.

ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) Answer to refer the cartes control of as on the (Continued)

S-chloro-2-[2-[(2,5)] - ((4-fluorophenyl)methyl]-2,5dimethyl-1-piperazinyl]-2-oxoethoxyl-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519173-91-2 CAPLUS
Benzeneacetamide, 5-bromo-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

CAPLUS

CN Benzeneacetamide, 5-chloro-2-[2-[4-[(4-fluorophenyl)methyl]-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

$$\begin{array}{c} \text{C1} \\ \text{CH}_2-\text{N} \\ \text{CH}_2-\text{C-NH-S-Me} \\ \end{array}$$

519173-93-4 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-

ANSMER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 519173-96-7 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-£lworophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(phenylsulfonyl)- (CA INDEX NAME)

# Absolute stereochemistry.

519173-97-8 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(2-methylphenyl)sulfonyl]- (CA INDEX NAME)

# Absolute stereochemistry.

519173-98-9 CAPLUS
Benzeneacetamide, 5-chloro-N-(ethylsulfonyl)-2-[2-[(2R,5S)-4-[(4-filuorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy)- (CA INDEX

# Absolute stereochemistry.

(Continued)

L7 ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN RN 519174-00-6 CAPLUS CN Benzeneacetamide, 5-bromo-2-[2-[4-[(4-fluorophenyl)methyl]-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

RN 519174-01-7 CAPLUS
CN Benzeneacetamide,
5-chloro-2-[2-[2]R)-4-[(4-fluorophenyl)methyl]-2-methyl1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

519174-02-8 CAPLUS

CN Benzenacetamico (128) -4-((4-fluorophenyl)methyl)-2-methyl-1piperazinyl)-2-oxoethoxyl-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

519174-06-2 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(4-methylphenyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

519174-07-3 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

519174-08-4 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(propylsulfonyl)- (CA INDEX NAME)

ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 519174-03-9 CAPLUS Enzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl1-piperazinyl]-2-oxoethoxy]-N-[(4-methoxyphenyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

519174-04-0 CAPLUS Benzeneacetamide, 5-chloro-N-[(2-chlorophenyl)sulfonyl]-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]- (CA INDEX NAME)

519174-05-1 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(2-fluorophenyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry

L7 ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.

519174-11-9 CAPLUS
Benzeneacetamide, 4-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-12-0 CAPLUS

RN 5191/4-12-0 CAPLOS
CN Benzenacetamide,
4-chloro-2-[2-[(2R)-4-[(4-fluorophenyl)methyl]-2-methyl1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-13-1 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(3,4-difluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

L7 ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) Absolute stereochemistry.

519174-14-2 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-chlorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

519174-16-4 CAPLUS Benzeneacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-[(phenylmethyl)sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.

519174-18-6 CAPLUS

CN Benzeneacetamide, 5-chloro-2-[2-[(2R)-4-[(4-chlorophenyl)methyl]-2-methyl-

L7 ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continuous Series and Continuous S (Continued)

Absolute stereochemistry.

519174-22-2 CAPLUS Benzeneacetamide, 2-[2-[(2R)-2-ethyl-4-[(4-fluorophenyl)methyl]-1-piperazinyl]-2-oxethoxy]-5-methyl-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

THERE ARE 3 CAPLUS RECORDS THAT CITE THIS OS.CITING REF COUNT: RECORD

(3 CITINGS)
THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT: FORMAT

ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-19-7 CAPLUS
Benzeneacetamide, 5-chloro-2-[2-[(2R)-4-[(3,4-difluorophenyl)methyl]-2-methyl-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

519174-20-0 CAPLUS

CN Benzeneacetamide, 5-chloro-2-[2-[(2R)-2-ethyl-4-[(4-fluorophenyl)methyl]-1-piperazinyl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

519174-21-1 CAPLUS

L7 ANSWER 11 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2003:221658 CAPLUS
DOCUMENT NUMBER: 138:255237
ITILE: 38:255237
INVENTOR(S): Torisu, Kazuhiko; Haseqawa, Tomoyuki; Kobayashi,
Kacru, Nambu, Fumio
PATENT ASSIGNEE(S): Ono Pharmaceutical Co., Ltd., Japan
PCT Int. Appl., 210 pp.
COODE: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILLY ACC. NUM. COUNT: 1
DATENT INVENTATION: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	CENT :						DATE				ICAT					ATE	
	2003																
	W:						AU,										
							DK,										
							IN,										
							MG,										
							SG,				TU,	TM,	TN,	TK,	TT,	TZ,	UA,
	DW.						MZ,				77	HC.	7M	754	ат	DF	D/C
	1/64.						EE.										
							BJ,										
			SN.			,	,	,	,	,	,	,	,	/	,	,	,
AU	2002	3353	54		A1		2003	0324		AU 2	002-	3353	54		2	0020	906
EP	1424	325			A1		2004	0602		EP 2	002-	7980	37		2	0020	906
	R:						ES,									MC,	PT,
TD	4292						RO, 2009									0000	000
OF	4272	402			DZ		2003	0,00		UF Z	005-	J200	09		-	0020	200
US	2005	0004	096		A1		2005	0106		US 2	004-	4888	34		2	0040	308
US	7153	852			B2		2006	1226									
RIT:	APP	LN.	INFO	. :						JP 2	001-	2712	81		A 2	0010	907
										WO 2	002-	JP90	77		W 2	0020	906
IR SO	DURCE	(S):			MAR	PAT	138:	2552:	37								

L7 ANSWER 11 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

The title indole compds., substituted by either dihydrobenzoxazinyl or benzodioxanyl, with general formula of I [wherein R = COR1, CH2CRO, or CC2R20; RO = H or acyl; Rl = alkoxy or (un)substituted amino; R2O = allyl or PhCH2; R2 = H, (alkoxy)alkyl, alkoxy, halo, NH2, trihalomethyl, CN,

PhCH2, or 4-MeO-PhCH2; R3 = H, alkyl, alkoxy, halo, trihalomethyl, CN, or OH; R4 and R5 = independently H, (alkoxy)alkyl, alkoxy, halo, NO2, NH2, trihalomethyl, trihalomethoxy, CN, or OH; D = a single bond, alkylene, alkenylene, or oxyalkylene; G = CONH, NHCO, SOZNH, NHSO2, diazo, (un)substituted alkylene, or alkenylene; R6 = 3-15 membered cyclyl or (un)substituted 4-H5 membered heterocyclyl; or G and R6 together form (un)substituted 4-H5 membered heterocyclyl; or G and R6 together form (un)substituted alkyl, alkenyl, or alkynyl; n = 1-3; m = 1-3; p = 1-4] OH, and

pharmaceutically acceptable salts thereof are prepared as prostaglandin D2

(PGD2) receptor antagonists. For example, the indole II was prepared in

multi-step synthesis. II showed Ki of 0.031 µM against DP receptor in rat. Compds. I are useful in preventing/treating allergic diseases, diseases associated with itch, diseases secondarily caused by behaviors associating itch, inflammation, chronic obstructive pulmonary disease, ischemic reperfusion injury, cerebrovascular diseases, rheumatoid arthritis-complicated pleuritis, ulcerative colitis, etc. (no data). Formulations containing I as an active ingredient were also described. 502434-08-8P 502434-30-2P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); FREP (Preparation); USES (Uses)

(DP receptor antagonist; preparation of indole derivs. as DP receptor antagonists)

L7 ANSWER 11 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
RN 502434-28-8 CAPLUS
CN 1H-Indole-4-acetamide,
1-[4-[(128)-3,4-dihydro-4-methyl-2H-1,4-benzoxazin2-y1]methoxy]benzoy1]-2-methyl-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 502434-30-2 CAPLUS
CN 1H-Indole-4-acetamide,
1-[4-[1(28)-3, 4-dihydro-4-methyl-2H-1, 4-benzoxazin-2-yl]methoxy]benzoyl]-2-methyl-N-(phenylsulfonyl)-

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD

REFERENCE COUNT: THERE ARE 12 CITED REFERENCES AVAILABLE FOR

RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 12 OF 109 ACCESSION NUMBER:	CAPLUS COPYRIGHT 2010 ACS on STN 2003:154382 CAPLUS
DOCUMENT NUMBER:	138:187795
TITLE:	Preparation of aryl or heterocyclyl-substituted
	benzoic acid and alkanoic acid derivatives as antagonists of prostaglandin E2 (PEG2) receptors
INVENTOR(S):	Tani, Kousuke; Asada, Masaki; Kobayashi, Kaoru;
	Narita, Masami; Ogawa, Mikio
PATENT ASSIGNEE(S):	Ono Pharmaceutical Co., Ltd., Japan
SOURCE:	PCT Int. Appl., 1009 pp.
	CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese

FAMILY ACC. NUM. COUNT: 1

WO 2003016254			FENT																
Wi																			
CO, CR, CU, CZ, DE, DK, DM, DZ, DZ, EE, ES, FI, GB, GD, GE, GB, GM, HR, HU, ID, TI, TN, TS, JP, KE, KG, KE, KZ, LC, LK, LR, CB, LT, LU, LV, MA, MD, MS, MK, MN, MM, MX, MZ, NO, NZ, CM, PH, PL, PT, RO, BU, SD, SE, GS, SI, SK, SI, TJ, TM, TM, TR, TT, TZ, UA, LW, MR, GB, GB, GB, GB, GB, GB, GB, GB, GB, GB																			
CM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KE, KZ, LC, LK, LE, LIT, LU, LV, MA, MD, MG, MK, MM, MM, MZ, NO, NZ, CM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  RN: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, BS, FI, FR, GB, GR, IE, IT, LU, MC, NL, MR, NE, SN, TD, TG  CA 2457468 A1 20030227 CA 2002-2457468 20020808  AU 2002323916 A1 20030303 AU 2002-323916 20020808  EP 1431267 A1 20040623 EP 2002-755874 20020808  EP 1431267 A1 20040623 EP 2002-755874 20020808  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, FT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK  HU 2004001963 A2 20050128 HU 2004-1963 20020808  HU 2004001963 A2 20050128 HU 2004-1963 20020808  HU 2004001963 A2 20050128 HU 2004-1963 20020808  HU 2004001963 A2 20050128 NZ 2002-531153 20020808  RU 2315746 C2 20080127 RU 2004-106623 20020808  RU 2315746 C2 20080127 RU 2004-106623 20020808  CN 101284773 A 20040010 CN 2008-10002260 20020808  AX 2004000973 A 20050104 ZA 2004-973 20040206  MX 2004000564 A 2004050 NN 2004-564 20040206  MX 2004001253 A 20040603 MX 2004-1253 20040209			w:																
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	US 7491748	B2	20090217		
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SSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT THER SOURCE(S): MARPAT 138:187795

Carboxylic acid derivs. (I) and nontoxic salts thereof [wherein R1 = CO2H,

CO2R4, CH2OH, COR5SO2R6, CONH2, CH2NR5SO2R6, CH2NR9COR10, CH2NR9CONN5SO2R6, CH2SO2NN9COR10, CH2O2CNR5SO2R6, tetrazole, 1,2,4-oxadiazol-5-chione, 1,2,4-thiadiazol-5-one, etc. (wherein R4 = C1-6 alkyl, hydroxy-C1-4 alkyl, C1-4 alkoxy-C1-4

alkyl, carboxy-Cl-4 alkyl, etc.; R5, R9 = H, Cl-6 alkyl; R6 = Cl-6 alkyl, C3-15 mono-, di-, or tricarbocyclic, 3- to 13-membered mono-, di-, or tricyclic heterocyclyl, etc.; R10 = H, R6); A = a single bond, Cl-6 alkylene, C2-6 alkenylene, C2-6 alkenylene, etc.; the ring B = C3-12 mono- or dicyclic carbocyclic ring, 3- to 12-membered mono- or dicyclic heterocyclic ring, 3- to 12-membered mono- or dicyclic heterocyclic ring; R2 = Cl-6 alkyl, Cl-6 alkoy, Cl-6 alkylthio, C2-6 alkenyl, C2-6 alkenyl, C2-6 alkenylene, or C2-4 alkylene-, or C2-4 alkylene-, or C2-4 alkynylene-, or C2-4 alkynylene-, or C2-6 alkenylene, or C2-6 alkenylene, or C2-6 alkenylene, or C2-6 alkynyl, Alkonylene, or C2-6 alkenylene, or C2-6 alkynylene, or C2-6 alkynylene-, or C2-6 alkynylene

etc.;
R3 = C1-6 alkyl, C3-15 mono-, di-, or tricyclic carbocyclyl, 3- to
15-membered mono-, di-, or tricyclic heterocyclyl, etc.] are prepared

carboxylic acid derivs. include phenylpropanoic acid, phenylpropenoic acid, phenylpropanamide, phenylpropenamide, 3-oxoisoindolin-1-ylacetic acid, benzylbenzoic acid, benzylbenzoic acid, benzylaminoacetic acid, pyrazolylmethylphenzoic acid, pyrazolylmethylpropanoic acid, pyrazolylmethylpropanoic acid, pyrazolylmethylpropanoic acid, pyrazolylmethylpropanoic acid, phenoxyacetic acid, phenylbutanoic acid, (pyrazolylmethyl)propanamide, (piperazinylmethylphenyl)propanamide,

ANSWER 12 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ANSMER 12 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
(morpholinylmethylphenyl)propanamide, (pyridinyloxyphenyl)propanamide,
(pyrazolylmethyl)propenamide (oxonindazolidinylmethylphenyl)propanamide,
(oxopyrrolidinylmethylphenyl)propenamide,
(thiophenylmethylphenyl)propenamide,
(pyrazolylmethylphenylmino)acetamide,
(pyrazolylmethylphenylphenyl)propanamide,
(pyrazolylmethylphenylphenyl)propanamide,
(pyrazolylmethylphenylethyl)-1, 2,4-oxadiazol-5-one, and
(pyrazolylmethylphenylethyl)-1,2,2-oxadiazol-5-one, and
(pyrazolylmethylphenylethyl)-1,2,4-oxadiazol-5-one, and
(pyrazolylmethylphenylethyl)-1,3-cetic acid. Because of binding to PEG2
receptors, in particular, subtype EP3 and/or subtype EP4 and having
antagonism, the compds. I are useful in preventing and/or treating
diseases such as pain, allodynia, hyperalgesia, pruritus (tching),
urticaria, atopic dermatitis, contact dermatitis, Urushi (Japanese
uer (Continued)

urticaria, atopic dermatitis, contact dermatitis, vient topical lacquer
tree) dermatitis, allergic conjunctivitis, symptoms during dialysis, asthma, rhinitis, allergic rhinitis, nasal congestion, smeere, psoriasis, pollakluria (increased urinary frequency), urination disorder, ejaculation
(semination) disorder, fever (pyrexia), systemic inflammation reaction, learning disorder, Alzheimer's disease, neovascularization, cancer formation, cancer proliferation, cancer metastasis to organs, cancer metastasis to bone, hypercalcemia accompanied by cancer metastasis to bone, retinopathy, rubrum, erythema (rash), leucoma, skin moth-patch, heat

burn, burn, steroid burn, kidney failure, nephropathy, acute or chronic nephritis, blood electrolyte disorder, imminent abortion, threatened abortion, excessive menstruation, dysmenorrhea, endometriosis, premenstrual syndrome, uterine gland myopathy, reprodn. disorder, and stress. They are also useful in preventing and/or treating anxiety, depression, psychophysiol. disorder, mental retardation, thrombus, embolism, transient ischemic attack, cerebral infarction, atheroma, organ transplant, heart failure, hypertension, myocardial infarction, arteriosclerosis, circulation disorders or ulcers assocd. therewith,

disorders, vascular dementia, edema, diarrhea, constipation, biliary excretion disorder, ulcerative colitis, Crohn's disease, irritable bowel syndrome, redn. of rebound after using steroid drugs, aids for decreasing or removing steroid drugs, bone diseases, systemic granuloma, immune diseases, pyorrhea alveolaris, gingivitis, periodontal disease, nerve

cell death, lung disorder, liver disorder, acute hepatitis, myocardial ischemia, Kawasaki disease, multiple organ failure, chronic headac angiitis, venous failure, varicose vein (varicosis), anal fistula, diabetes insipidus, neonatal patent ductus arteriosus, and cholelithiasis

elithlasis.

Thus, 4-hydroxymethyl-2-[2-(naphthalen-2-yl)ethoxy]cinnamic acid Et ester was mesylated by methanesulfonyl chloride in the presence of Et3N in THF at 0° for 15 min and condensed with pyrazole in the presence of NaH in DMF at 0° to give 2-[2-(naphthalen-2-yl)ethoxy]-4-[1-pyrazolylmethyl)cinnamic acid Et ester.

4-[2-[[2-(Naphthalen-1-yl)propanoyl]amino]-4-methylthiomethylphenyl]butanoic acid inhibited the binding of [3H]PGE2 to prostaqlandin E2 (PRG2) receptor subtype EP1, EP2, EP3, and EP4 expressed in CHO cells with Ki of >10, >10, 0.27, and 0.038 µM, resp. A tablet

ANSWER 12 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Coformulation contg. (2E)-2-[2-(naphthalen-2-y1)ethoxy]-4-(1-pyrazolylmethyl)cinnamic acid was described. 499153-88-7p (Continued)

499193-88-19 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(preparation of aryl or heterocyclyl-substituted benzoic acid and

noic

acid derivs. as antagonists of prostaglandin E2 (PEG2) receptors as
therapeutic agents)
499153-80-7 CAPLUS
1H9-Indole-3-acetamide, N-[(3,4-difluorophenyl)sulfonyl]-2-methyl-1-[2-(1-naphthalenyl)-1-oxopropyl]- (CA INDEX NAME)

THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (43 CITINGS) 24 OS.CITING REF COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 13 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: OCUMENT NUMBER:

APLUS COPYRIGHT 2010 ACS on STN 2003:22711 CAPLUS 138:83384 Preventives/remedies for organ functional disorders with increasing ubiquinone and inhibiting squalene synthase Sugiyama, Yasuo; Nishimoto, Tomoyuki; Kiyota, Yoshihiro Takeda Chemical Industries, Ltd., Japan PCT Int. Appl., 121 pp. CODEN: PIXXD2 Patent Japanese 1

PATENT ASSIGNEE(S):

LANGUAGE:

INVENTOR(S):

		CC. I			NT:	1												
		ENT I										LICAT						
<												2002-					0020	
~			CO, GM, LT, PT, UG,	CR, HR, LU, RO, US,	CU, HU, LV, RU, UZ,	CZ, ID, MA, SD, VN,	DE, IL, MD, SE, YU,	DK, IN, MG, SG, ZA,	DM, IS, MK, SI, ZM,	DZ, JP, MN, SK, ZW	EC KE MW SL	, BG, , EE, , KG, , MX, , TJ,	ES, KR, MZ, TM,	FI, KZ, NO, TN,	GB, LC, NZ, TR,	GD, LK, OM, TT,	GE, LR, PH, TZ,	GH, LS, PL, UA,
		2451	CY, BF,	DE, BJ,	DK, CF,	ES, CG,	FI, CI,	FR, CM,	GB, GA,	GR, GN,	IE GQ	, IT, , GW, 2002-	LU, ML,	MC, MR,	NL, NE,	PT, SN,	SE, TD,	TR, TG
<	AU	2002	3132	77		A1		2003	0303		AU	2002-	3132	77		2	0020	627
<	JP	2003	0818	73		A		2003	0319		JP	2002-	1881	33		2	0020	627
<	EP	1407	782			A1		2004	0414		EP	2002-	7388	22		2	0020	627
<	US		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, IT, , TR 2003-						
<	US	2006	0241	096		A1		2006	1026		US	2006-	4735	60		2	0060	623
<	US	2008	0132	483		A1		2008	0605		US	2008-	9277			2	0080	117
	RITY	APP	LN.	INFO	.:							2001-						
<												2002-						
<												2003- 2006-						

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S):

MARPAT 138:83384

AB Preventives/remedies for organ functional disorders, preventives/remedies
for organ dysfunction and preventives/remedies for obesity and sequels
thereof which contain a compound having an effect of increasing

ANSWER 13 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) its salt or prodrugs of the same; and ubiquinone increasing agents contg a compd. having a squalene synthase inhibitory effect, its salt or prodrugs of the same.

189059-84-5 189059-85-6 189060-07-9

189060-045-5 383652-05-9

RL: PAC (Pharmacological activity); TBU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Preventives/remedies for organ functional disorders with increasing ubiquinone and inhibiting squalene synthase)

189059-84-5 CAPLUS

4,1-Benzowarepine-3-acetagde, 7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-1-(3-hydroxy-2,2-dimethylpropyl)-N-(methylsulfonyl)-2-oxo-, (3R,5S)- (CA INDEX NAME)

%9059-85-6 CAPLUS
4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-ternahyloro-1-[3-hydroxy-2-(hydroxymethyl)-2-methylpropyl]-N(methylsulfonyl)-2-oxo-, (3R,5S)- (CA INDEX NAME)

solute stereochemistry.

L7 ANSWER 13 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

 $189060-07-9 \quad CAPLUS \\ 4,1-Benzoxazepine-3-acetamide, 1-[3-(acetyloxy)-2-[(acetyloxy)methyl]-2-methylpropyl]-7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-N-(methylsulfonyl)-2-oxo-, (3R,5S)- (CA INDEX NAME)$ 

Absolute stereochemistry.

CAPINS epine-3-acetamide, 1-[3-(acetyloxy)-2,2-dimethylpropyl]-7-4,1-Benzoxazen

chloro-5-(2,3-minethoxyphenyl)-1,2,3,5-tetrahydro-N-(methylsulfonyl)-2-oxo-, (3R,5%)- (CA INDEX NAME)

ANSWER 13 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

383652-05-9 CAPLUS 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-1-(3-hydroxy-2,2-dimethylpropyl)-2-oxo-N-(propylsulfonyl)-, (3R,58)- (CA INDEX NAME)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS

(7 CITINGS)
THERE ARE 38 CITED REFERENCES AVAILABLE FOR REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ACCESSION NUMBER:

DOCUMENT NUMBER: TITLE:

ANSWER 14 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 2002:607988 CAPLUS
MENT NUMBER: 137:177047
E: Silver halide photographic material containing more
than two kinds off sensitizing dyes
NTOR(S): Nakamura, Rkio; Morimura, Kimiyasu, Hioki, Takanori
NT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 36 pp.
CODEN: JKXXAF
MENT TYPE: Patent
UNGE: Japansee
1 MACC. NUM. COUNT: 1

INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2002229145	A	20020814	JP 2001-21719	20010130
<	07 2002220145		20020014	OF 2001-21715	20010130
	US 20020168599	A1	20021114	US 2002-58285	20020130
<	US 6759186	В2	20040706		
PRIO	RITY APPLN. INFO.:			JP 2001-21719 A	20010130

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 137:177047 OTHER SOURCE(S):

The invention relates to a photog, material comprised of at least one Ag halide photosensitive emulsion layer on a support, wherein the Ag halide emulsion contains at least two kinds of sensitizing dyes represented by I (X = 0, S, Se, NR', R, R' = alkyl, aryl, heterocycle; D = group for forming methine dye; M = counter ion; m ≥0). The Ag halide emulsion comprises 550 % Ag halide tabular grains with an aspect ratio of ≥2. The photog, material shows high sensitivity, excellent granularity, and reduced residual color upon fast processing. 331229-77-7 364367-01-1
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses) (sensitizer; Ag halide photog, material containing more than two

(Uses) (Sensitizer; Ag halide photog. material containing more than two kinds of

s of sensitizing dyes to improve photog. properties)
331229-77-7 CAPLUS
Benzothiazolium, 5-chloro-2-[2-[[5-fluoro-3-(4-sulfobuty1)-2(3H)-benzothiazoly1idene]methy1]-1-buten-1-y1]-3-[2-[(methylsulfony1)amino]-2-oxoethy1]-, inner salt (CA INDEX NAME)

ANSWER 14 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

364367-01-1 Benzothiazoly benzothiazoly, oxoethyl]-, is CAPLUS

wm, 5-chloro-2-[2-[[5-fluoro-3-(3-sulfopropy1)-2(3H)
wd.dene]methyl]-1-buten-1-yl]-3-[2-[(methylsulfonyl)amino]-2
innog salt (CA INDEX NAME)

(Continued)

ANSWER 15 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER:

2002:487528 CAPLUS 137:63173 DOCUMENT NUMBER:

Preparation of benzo[f]isoindoles which bind to the TITLE:

INVENTOR(S):

Preparation of benzo[f]isoindoles which bind to the EP4 receptor Giblin, Gerard Martin Paul; Jones, Haydn Terence; Mason, Andrew McMuttrie; Miller, Neil Derek; Rooman. Susan; Shanahan, Stephen Edward; Walker, Ann Louise Glaxo Group Limited, UK PCT Int. Appl., 44 pp. CODEN: PIXXD2 Patent

PATENT ASSIGNEE(S):

DOCUMENT TYPE: English

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE WO 2002050032 A1 20020627 WO 2001-GB5676 20011220

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NO, NZ, CM, PH, PL, FT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
RN: GH, GM, KE, LS, MN, MZ, SD, SL, SZ, TZ, UG, ZM, ZN, AT, BE, CH, CT, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, FT, SE, TR, BF, BJ, CFG, CI, CM, GA, GN, GQ, GM, ML, MR, NE, SN, TD, TG
AU 2002016218

A 20020701

AU 2002-16218

20011220

EP 1351934 20031015 EP 2001-271355 20011220 A1

EP 1351934 BI 20070829 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, LE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2004517099 T 20040610 JP 2002-551529 20011220

JP 4397586 AT 371645 B2 T 20100113 20070915 20011220 AT 2001-271355 ES 2001-271355 20011220 ES 2290093 Т3 20080216

US 20040102508 20040527 US 2004-450891 20040130 A1 US 6924297 B2 20050802

PRIORITY APPLN. INFO.: GB 2000-31302 A 20001221 WO 2001-GB5676 W 20011220

OTHER SOURCE(S): MARPAT 137:63173 ANSWER 15 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

The title compds. [I; a = 0-1; b = 0-3; R1 = H, halo, alkyl, etc.; R2 = alkyl; R3 = H, O; R4 = H, alkyl; R5, R6 = H, halo, alkyl; or R5 and R6

taken together to form a cyclopropyl ring; R7-R10 = H, alkyl, alkoxy, etc.; R11 = H, CH, halo, etc.; R12 = H, alkyl, Ph, etc.] which bind with high affinity to the EP4 receptor and are of use in the treatment of prevention of conditions such as a pain, inflammatory, immunol., bone, neurodegenerative or renal disorder, were prepared E.g., a multi-step synthesis of II which showed a pki of 7.0 or greater at EP4 receptors,

given. 439295-40-6P 439295-59-7P 439295-90-6P 439296-03-4P 439295-57-5P 439295-55-3P 439295-60-0P 439295-93-9P 439296-05-6P 439295-87-1P 439295-95-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(preparation of benzo[flisoindoles which bind to the EP4 receptor)

(preparation of Demotifylandinates and March 193295-40-6 CAPLUS
Benzeneacetamide, 3,4-dichloro-N-[[[4-(4,9-diethoxy-1,3-dihydro-1-oxo-2H-benz[f]isoindol-2-yl)phenyl]methyl]sulfonyl]- (CA INDEX NAME)

ANSWER 15 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

439295-55-3 CAPLUS
Benzeneacetamide, N-[[[4-(4,9-diethoxy-1,3-dihydro-1-oxo-2H-benz[f]isoindol-2-yl)phenyl]methyl]sulfonyl]-2,3-dimethoxy-

439295-57-5 CAPLUS
Benzeneacetamide, N-[[[4-(4,9-diethoxy-1,3-dihydro-1-oxy-2H-benz[f]isoindo1-2-yl)phenyl]methyl]sulfonyl]-2,5-dimethoxy-9-2H-(CA INDEX

439295-59-yer\*CAPLUS
Benzeneacetamide, N-[[[4-(4,9-diethoxy-1,3-dihydro-1-oxo-2H-benz[f]isoindol-2-y1)phenyl]methyl]sulfonyl]-3,4-dimethoxy- (CA INDEX NAME)

ANSWER 15 OF 109 CAPLUS COPYRIGHT 2010 ACS of

60\_green CAPLUS greetamide, N-[[[4-(4,9-diethoxy-1,3-dihydro-1-oxo-2H-isoindol-2-yl)phenyl]methyl]sulfonyl]-2,5-dimethyl-

 $439295-87-1 \quad CAPLUS \\ Benzeneacetamide, \quad N-[[[4-(4,9-diethoxy-1,3-dihydro-1,3-dioxo-2H-benz[f]]solindol-2-yl]phenyl]methyl]sulfonyl]-3,4-dimethoxy- (CAPLUS) | CAPLUS | CA$ (CA INDEX

439295-90-6 CAPLUS
Benzeneacetamide, N-[[[4-(4,9-diethoxy-1,3-dihydro-1,3-dioxo-2H-benz[f]isoindol-2-yl)phenyl]methyl]sulfonyl]-2,5-difluoro- (CA INDEX NAME)

(Continued)

L7 ANSWER 15 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

439295-93-9 CAPLUS Benzeneacetamide, N-[[[4-(4,9-diethoxy-1,3-dihydro-1,3-dioxo-2H-benz[f]isoindol-2-yl)phenyl]methyl]sulfonyl]-2,6-dimethyl- (CA INDEX NAME)

439295-95-1 CAPLUS
Benzeneacetamide, N-[[[4-(4,9-diethoxy-1,3-dimydro-1,3-dioxo-2H-benz[f]isoindol-2-yl)phenyl]methyl]sulfonud 3-3-fluoro-4-methyl- (CA INDEX NAME)

439296-03-4 CAPLUS Benzeneacetamide, N-[[[4-(4,9-diethoxy-1,3-dihydro-1-oxo-2H-benz[f]]isoindol-2-yl)phenyl]methyl]sulfonyl]-3,5-dimethoxy- (CA INDEX NAME)

L7 ANSWER 15 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

433.06-05-6 CAPLUS
3-Benzodioxole-5-acetamide, N-[[[4-(4,9-diethoxy-1,3-dihydro-1-oxo-2H-benz[f]isoindol-2-y1)phenyl]methyl]sulfonyl]-2,2-dimethyl- (CA INDEX NAME)

THERE ARE 5 CAPLUS RECORDS THAT CITE THIS OS.CITING REF COUNT: RECORD

 $(5\ \mbox{CITINGS})$  There are 5 cited references available for this record. ALL citations available in the re REFERENCE COUNT:

FORMAT

L7 ANSWER 16 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:446202 CAPLUS
DOCUMENT NUMBER: 137:22367
Metal complex due for a due sensitized solar cell

PATE:	NTOR(S): NT ASSIGNEE(S): CE:	Watanab Fuji Ph Eur. Pa CODEN:	e, Tetsuya oto Film Co t. Appl., 35	for a dye sensitized ., Ltd., Japan 5 pp.	solar cell
	MENT TYPE: UAGE:	Patent English			
	LY ACC. NUM. COUNT:	1			
	NT INFORMATION:	-			
	PATENT NO.		DATE	APPLICATION NO.	DATE
	EP 1213776			EP 2001-129122	20011207
<	22 22 27 70	****	20020012	11 1001 113111	20011201
	EP 1213776		20040317		
				, GR, IT, LI, LU, NL,	SE, MC, PT,
	JP 2002176188		RO, MK, CY, 20020621	, AL, TK JP 2000-375146	20001208
<	01 2002170200	**	20020021	51 2000 575115	20001200
	JP 4162116	B2	20081008		
	RITY APPLN. INFO.:			JP 2000-375146	A 20001208
<	A photoelec, conver	sion dev	ice comprise	es a semiconductor fi	ne particle
	sensitized by a dye	having	a proton dia	ssociative imide groupec. conversion device	p, and a
				toelec. conversion de	
	provided.				
IT	434339-64-7				
	RL: DEV (Device com	ponent u ve for d	se); USES ((	Jses) ed solar cell) ro-3,3-dimethyl-1-[2- 1]-2H-indol-2-ylidemed INDEX NAME)	- Market Market
RN	434339-64-7 CAPLUS	, c 101 a	ye benbicii	Da Bolai Coli,	THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF TH
CN	Cyclobutenediylium,	1,3-bis	[[1,3-dihyd	ro-3,3-dimethyl-1-[2-	Skare 2 -
	[[(trifluoromethyl)	sulfonyl	]amino]ethy:	l]-2H-indol-2-ylidene	[methy1]-2,4-
	dinydroxy-, bis(inn	er sait)	(9C1) (CA	INDEX NAME)	
				Transference	
_				¬ 0	
			Me	****	
	Me O	-	Messes	INDEX NAME)	
1	110	\		1	

THERE ARE 5 CAPLUS RECORDS THAT CITE THIS

(6 CITINGS)
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L7 ANSWER 16 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ANSWER 17 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2002:368929 CAPLUS DOCUMENT NUMBER: 136:393179 Silver halide color photographic film and paper TITLE: Sarver Mainte Color photographic rinm and paper comprising sensitizing methine dye Nakamura, Tetsuo; Hioki, Takanori; Ohzeki, Katsuhisa; Hanaki, Naoyuki Fuji Photo Film Co., Ltd., Japan; Fujifilm INVENTOR(S): PATENT ASSIGNEE(S): Corporation SOURCE: U.S. Pat. Appl. Publ., 75 pp., Cont.-in-part of U.S. Ser. No. 536,679.
CODEN: USXXCO DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English PATENT NO. KIND DATE APPLICATION NO DATE US 20020058216 A1 20020516 US 2001-931309 20010817 JP 2001-118281 20010417 PRIORITY APPLN. INFO.: US 2000-536679 A2 20000328 JP 2001-118281 A 20010417 JP 2000-124612 A 20000425 JP 2000-132357 A 2000050 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 136:393179 GI

Disclosed is silver halide color photog. film and paper which comprise thine dye represented by the following formula I (Y =

ANSWER 17 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

ANSWER 17 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) ring, pyrrole ring, Y may be condensed with other 5- or 6-membered carbocyclic or heterocyclic ring; Z = at. group necessary to form a 5- or 6-membered nitrogen-contg. heterocyclic ring, Z may further be condensed with other 5- or 6-membered carbocyclic or heterocyclic ring; R = alkyl, aryl, heterocyclic; D = group necessary to form a methine dye, L1, L2 = methine group; p = 0, 1; M = counter ion; m = no. necessary to neutralize the charge in the mol). High sensitivity and excellent residual color effect can be obtained by the constitution of the present invention. 391879-65-5 391879-84-8 391879-85-9 321879-89-3 425621-07-4 RL: PRP (Properties); TEM (Technical or engineered material use); USES (USes)

RLI PRP (Properties); TEM (Tecnnical 6. engance - (Uses) (Sensitizing dye; color photog. film and paper comprising sensitizing methine dye) 39187-65-5 CAPLUS Benzoselenazolium, sethyl-3-[2-[(methyl.sulfonyl)amino]-2-2000cethyl]-2-[[3-(4-sulfobutyl)thieno[2,3-d]thia.mol-2(3H)-ylidene]methyl]-, inner salt (9CI) (CA INDEX NAME)

CAPLUS

NN 3916/9-84-8 CAPLUS
CN Benzothiazolium,
2-[[5-fluoro-1-(3-sulfopropyl)thieno[3,2-d]thiazol-2(1H)ylidene]methyl]-5-methoxy-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner

salt (CA INDEX NAME)

391879-85-9 CAPLUS Benzothiazolium, 2-[[5-bromo-3-(3-sulfopropyl)thieno[2,3-d]thiazol-2(3H)-ylidene]methyl]-5-chloro-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ANSWER 18 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 2002:368342 CAPLUS
WHNT NUMBER: 136:359669
E: High-density lipoprotein-cholesterol level elevating agent ACCESSION NUMBER:

DOCUMENT NUMBER: TITLE:

High-density lipoprotein-cholesterol level elevating agent Nishimoto, Tomoyuki; Tozawa, Eyuichi; Kori, Masakuni; Amano, Yuichiro Takeda Chemical Industries, Ltd., Japan PCT Int. Appl., 111 pp. CODEN: PIXXD2 Patent Japanese 1 INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT:

		PENT				KIN	D	DATE				ICAT					ATE	
		2002																
<			CO, GM, LT, PT, US,	CR, HR, LU, RO, UZ,	CU, HU, LV, RU, VN,	CZ, ID, MA, SD, YU,	DE, IL, MD, SE, ZA,		DM, IS, MK, SI,	DZ, JP, MN, SK,	EC, KE, MW, SL,	EE, KG, MX, TJ,	ES, KR, MZ, TM,	FI, KZ, NO, TR,	GB, LC, NZ, TT,	GD, LK, OM, TZ,	GE, LR, PH, UA,	G L P: U
		RW:	DE, BJ,	DK, CF,	ES, CG,	FI, CI,	FR,	GB, GA,	GR, GN,	IE, GQ,	IT, GW,	LU,	MC, MR,	NL, NE,	PT, SN,	SE, TD,	TR,	В
<	CA	2420	003			MI		2002	0316		CA Z	001-	2420	003		-	0011	10
<	AU	2002	0127	41		A		2002	0521		AU 2	002-	1274	1		2	0011	10
<	JP	2002	2059	56		Α		2002	0723		JP 2	001-	3440	74		2	0011	10
<		4138 1332									EP 2	001-	9810	43		2	0011	10
\		R:	IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR						
	US	2004	0063	750		A1		2004	0401		US 2	003-	4162	39		2	0030	50
<	US	2008	0058	310		A1		2008	0306		US 2	007-	8108	87		2	0070	60
	RIT:	APP	LN.	INFO	. :						JP 2	000-	3426	07		A 2	0001	10
<											WO 2	001-	JP98	02		W 2	0011	10
<											US 2	003-	4162	39		A1 2	0030	50

ANSWER 18 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) Also, a tablet contg. I 50, D-mannitol 50, corn starch 33.9, croscarmellose sodium 40, hydroxypropyl cellulose 5.5, and magnesium stearate 0.6 mg was prepd.

189059-84-5 189059-85-6 189060-07-9

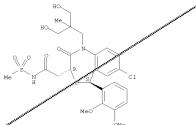
189060-45-5 383652-05-9

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (high-d. lipoprotein-cholesterol level elevating agents containing lene

lene
synthase inhibitors)
189059-84-5 CAPLUS
4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5tetrahydro-1-(3-hydroxy-2,2-dimethylpropyl)-N-(methylsulfonyl)-2-oxo-,
(3R,5S)- (CA INDEX NAME)

189059-85-6 CAPLUS 189059-85-6 CAPLUS
4,1-Benzoxazepine-3-acetamide, 7-chloroxyset-(2,3-dimethoxyphenyl)-1,2,3,5tetrahydro-1-[3-hydroxy-2-(hydroxymethyl)-2-methylpropyl]-N(methylsulfonyl)-2-oxo-, (3R,55)

Absolute stereochemistry.



 $189060-07-9 \quad CAPLUS \\ 4,1-Benzoxazepine-3-acetamide, 1-[3-(acetyloxy)-2-[(acetyloxy)methy1]-2-methylpropy1]-7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-N-(methylsulfonyl)-2-oxo-, (3R,5S)- (CA INDEX NAME)$ 

 $189060-45-5 \quad \texttt{CAPLUS} \\ 4,1-\texttt{Benzoxazepine-3-acetamide, 1-[3-(acetyloxy)-2,2-dimethylpropyl]-7-} \\$ 

chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-N-(methylsulfonyl)-2-oxo-, (3R,5S)- (CA INDEX NAME)

\*3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-hydroxy-2,2-dimethylpropyl)-2-oxo-N-(propylsulfonyl)-, DEX NAME) 4,1-Benzoxazepine tetrahydro-1-(3-) (3R,5S)- (CA INC

Absolute stereoche try. Rotation (-).

L7 ANSWER 19 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

136:340711

Bridged piperazine derivatives, specifically
3,8-diazabicyclo[3.2.1]octane,
8-azabicyclo[3.2.1]octane,
2,5-diazabicyclo[3.2.2]octane, and
3,9-diazabicyclo[3.2.1]onane derivatives, useful as
inhibitors of chemokines binding to CCR1 receptors,
for treating inflammation and other immune disorders.

INVENTOR(S):

PATENT ASSIGNEE(S):

PATENT ASSIGNEE(S):

POCUMENT TYPE:

LANGUAGE:

DOCUMENT TYPE:

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

FAMILY ACC. NUM. COUNT:

FATENT INFORMATION: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.																
WO	2002				A2		2002				2001-					0011	
		AE, CO, GM, LS, PT, US, GH, DE,	AG, CR, HR, LT, RO, UZ, GM, DK, CF,	AL, CU, HU, LU, RU, VN, KE, ES, CG,	AM, CZ, ID, LV, SD, YU, LS, FI, CI,	AT, DE, IL, MA, SE, ZA, MW, FR,	AU, DK, IN, MD, SG, ZW MZ, GB, GA,	AZ, DM, IS, MG, SI, SD, GR, GN,	BA, DZ, JP, MK, SK, SL, IE, GQ,	EC KE MN SL SZ IT GW	, BG, , EE, , KG, , MW, , TJ, , TZ, , LU, , ML, 2001-	ES, KP, MX, TM, UG, MC, MR,	FI, KR, MZ, TR, ZW, NL, NE,	GB, KZ, NO, TT, AT, PT, SN,	GD, LC, NZ, TZ, BE, SE, TD,	GE, LK, PH, UA, CH, TR,	GH, LR, PL, UG, CY, BF,
	2001	0921	60		Α		2002	0429		AU :	2001-	9216	0		2	0011	004
	1326	867			A2		2003	0716		EP :	2001-	9723	89		2	0011	004
EE -	R: 2003 2001	IE, 0018	SI, 9	LT,	LV, A	FI,	RO, 2003	MK, 1015	CY,	AL, EE		189			2	MC, 0011	004
-	2001										2001-					0011	
	2003 2004	0014 5115	42 58		A3 T		2007 2004			JP :	2002-	5362	83		2	0011	004
	5247	42			A		2004	1224		NZ :	2001-	5247	42		2	0011	004
-	2002				A1		2002				2001-					0011	
-	2003						2005				2003-1 2003-					0030	
- AA	2003	VU21	<i>J</i> /		Λ		2004	V422		an .	2005-	2131			4	<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	210

L7	ANSWER 19 OF 109 BG 107655	CAPLUS A	COPYRIGHT 20040130	2010 ACS on STN BG 2003-107655	(Cont	inued) 20030320
<	NO 2003001572	A	20030610	NO 2003-1572		20030408
<	MX 2003003475	A	20030714	MX 2003-3475		20030416
PRIO	RITY APPLN. INFO.:			US 2000-241804P	P	20001019
<				WO 2001-IB1844	M	20011004
<						

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 136:340711

$$F_3$$
C  $N$   $N$   $N$   $N$ 

Compds. I and their pharmaceutically acceptable salts, useful for treatment of inflammation and other immune disorders, are disclosed [wherein: n = 1-5; m = 1-5; q = 0-1; a, b, c = (CR2)0-4 (independently); a, b, and c cannot all be null; if a and/or c is not null, then b must be null; W = CH or N; X = CO, C(S), or CH2; Y = CH2; Z = O, (un)substituted NH or (un)substituted CH2; R = certain (un)substituted (hereo)aryl or (hetero)cycloalkyl; Rl = (independently) H, OH, SO3H, halo, alkyl, SH, CF3, wide variety of other substituents]. The compds. are useful for treatment of a wide variety of diseases and disorders, which are cited specifically in claims. Approx. 100 specific examples of I are given, many with synthetic details. For example,
3-(4-fluorobenzyl)-3,8-diazabioyolo[3,2,1]octan-2-one (preparation given) underwent a sequence of: (1) reduction of the amide carbonyl using LiklH4 (94%); (2) 8-N-acylation with chloroacetyl chloride (69%); and (3) etherification with 2-nitro-4-trifiboromethylphenol (58%), to give title compound II. In a bioassay for the ability to inhibit chemotaxis of our cells (CMD-1 cells vinary hyman moneyutes or vinary lymphocytes) in

cells (THP-1 cells, primary human monocytes, or primary lymphocytes) in vitro, all example compds. had IC50 values of less than 10  $\mu M$ .

ANSWER 19 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 417727-33-4P, N-[[5-Chloro-2-[2-[3-(4-fluorobenzyl)-3,9-diazabicyclo[3,3.1]non-9-yl]-2-exoethoxy]phenyl]acetyl]methanesulfonamide RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (Uses) (drug candidate; preparation of bridged piperazine derivs. as inhibitors of chemokines binding to CCR1 receptors)
RN 417727-33-4 CAPLUS
CN Benzeneacetamide, 5-chloro-2-[2-[3-[(4-fluorophenyl)methyl]-3,9-diazabicyclo[3.3.1]non-9-yl]-2-oxoethoxy]-N-(methylsulfonyl)- (CA INDEX NAMF)

APLUS COPYRIGHT 2010 ACS on STN 2002:99047 CAPLUS 136:158761
Heat developable photographic films containing specific sensitizing dye Hioki, Takanori; Kato, Takashi; Ozeki, Tomoyuki; Hanaki, Naoyuki Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 52 pp. CODEN: JKXXAF Patent DOCUMENT NUMBER: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent Japanese PATENT NO. DATE DATE JP 2002040591 JP 2000-219957 PRIORITY APPLN. INFO.: JP 2000-219957

ANSWER 20 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

20000721 OTHER SOURCE(S): MARPAT 136:158761 OTHER SOURCE(S): MARPAT 136:158/61
AB The invention relates to a heat-developable film containing a light-sensitive silver halides, heat-insensitive organic silver salts, a reducing agent,

a binder on a support, wherein the film also contains sensitizing dye (dyel)-(R1)q Mlml (dyel = dye residue; M1 = counter ion; m1 = charge-neutralizing charge number; q ≥1 integer; R1 = group containing charge number; q ≥1 integer; R1 = group containing charge developed. - CONSO-2, - CONSO-2, - CONSO-2) = The film provides the goo image d. under various temperature and humidity.

395662-15-4P 395662-30-3P REL: SPN (Synthetic preparation); TEM (Technical or engagered material use); PREP (Preparation); USES (Uses) (sensitizing dye in heat-developable photog. films)

395662-15-4 CAPLUS
Benzoakaolium, 2-[3-[5,6-dimethyl-3-[6,0] (methylsulfonyl)amino]-2-cxoethyl]-2 (3H)-benzothiazolylidene|mgmyl]-5,5-dimethyl-2-cyclohexen-1

ylidene]-1-propen-1-yl]-3-ethyl-5,5 dimethyl-, inner salt (CA INDEX)

NAME :

$$\begin{array}{c} \text{Me} \\ \text{Me} \\ \text{Me} \end{array}$$

RN 395662-30-3 CAPLUS
CN Benzothiazolium,
2-[[3-ethyl-5-[2-[4-methyl-3-[2-[(methylsulfonyl)amino]-2oxoethyl]-2(3H)-thiazolylidene]ethylidene]-4-oxo-2thiazolidinylidine]methyl]-5,6-dimethoxy-3-[2-[(methylsulfonyl)amino]-2oxoethyl]-, inner salt (CA INDEX NAME)

L7 ANSWER 20 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

(Continued)

L7 ANSWER 21 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ANSWER 21 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 2002:61857 CAPLUS MENT NUMBER: 136:142540 ACCESSION NUMBER: 136:142540
Photographic film containing specific methine dye
Nakamura, Akio; Hioki, Takanori; Ozeki, Katsuhisa;
Hanaki, Naoyuki
Fuji Photo Film Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 109 pp.
CODEN: JKXXAF
Patent DOCUMENT NUMBER: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE JP 2002023295 А 20020123 JP 2001-118281 20010417 US 20020058216 A1 20020516 US 2001-931309 20010817 EP 2001-124350 20011023 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRIORITY APPLN. INFO.: JP 2000-124612 A 20000425 JP 1999-89424 A 19990330 JP 2000-4868 A 20000113 US 2000-536679 A2 2000032 20010417 JP 2001-118281 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY F OTHER SOURCE(S): MARPAT 136:142540

(M)<sub>m</sub>

The invention relates to photog. films containing methine dye I ( Y = 5-6 membered unsat. heterocyclic ring residue; Z = 5-6 membered unsat. heterocyclic ring residue, connecting group; R = alkyl, aryl, heterocyclics; D = dye functional group; L1-2 = methine; p = 0,1; M = counter ion; m = number to neutralize charge in compound). The photog.

(Continued)

provides the high sensitivity and little residual color after the process without detracting the pressure durability.
391879-39-3P
RL: RCT (Reactant); SPN (Synthetic preparation); MREP (Preparation); RACT (Reactant or reagent)
(photog, film containing specific methics due)
391879-39-3 CAPLUS
Thieno[2,3-d]thiazolium, 5-bromo-2-acthyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CARTHOEX NAME)

391879-65-5P 391879-84-8P 391879-85-9P 391879-89-3P 391880-08-3P RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (photog. film containing specific methine dye) 391879-65-5 CAPLUS Benzoselenazolium, thyl-3-[2-[(methylsulform\*)

Senzoselenazolium,
5-methyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-2-[[3(4-sulfobutyl)thieno[2,3-d]thiazol-2(3H)-ylidene]methyl]-, inner salt
(9CI) (CA INDEX NAME)

L7 ANSWER 21 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) -03S- (CH2)4 RN 391879-84-8 CAPLUS
CN Benzothiazolium,
2-[[5-fluoro-1-(3-sulfopropyl)thieno[3,2-d]thiazol-2(1H)ylidene]methyl]-5-methoxy-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-,
inner salt (CA INDEX NAME) 391879-85-9 CAPLUS Benzothiazolium, 2-[[5-bromoardus (3-sulfopropyl)thieno[2,3-d]thiazol-2(3H)-ylidene]methyl]-5-chloro-ard[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

L7 ANSWER 21 OF 109 CAPLUS COPYRIGHT 2010 ACS on STREET (Continued) -03S- (ÇH2)3

391880-08-3 CAPLUS
Refroxazolium,
loro-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-2-[2-[[3-(3-sulforpopyl)furo[3,4-d]thiazol-2(3H)-ylidene]methyl]-1-buten-1-yl]-,
inner salt (CA INDEX NAME)

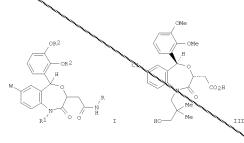
391879-89-3 CAPLUS
Benzothiazolium, 2-[2-[[5-fluoro-3-(3-sulfopropyl)thieno[2,3-d]thiazol-2(3H)-ylidene]methyl]-1-buten-1-yl]-5,6-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ANSWER 22 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 2001:935587 CAPLUS MENT NUMBER: 136:69829 ACCESSION NUMBER: DOCUMENT NUMBER: DOCUMENT NUMBER: 135:69829
TITLE: Preparation of
dialkoxyphenyloxobenzoxazepineacetamide
squalene synthase inhibitors as antihyperlipidemic antihypercholesteremic agents
Kori, Masakuni; Miki, Takashi; Nishimoto, Tomoyuki;
Tozawa, Ryuichi
Takeda Chemical Industries, Ltd, Japan
PCT Int. Appl., 643 pp.
CODEN: PIXXD2
Patent
English
1 INVENTOR(S). PATENT ASSIGNEE(S): DOCUMENT TYPE: DOCUMENT 11PL: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO KIND DATE APPLICATION NO. DATE WO 2001098282 A1 20011227 WO 2001-JP5347 20010622 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, DX, ND, RZ, FL, FT, AC, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, FT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
429

A1 20011227 CA 2001-2413429 20010622 CA, CH, CN, GD, GE, GH, LK, LR, LS, PL, PT, RO, UG, US, UZ, BJ, CF, CA 2413429 AU 2001074588 A 20020102 AU 2001-74588 20010622 JP 2002080468 Α 20020319 JP 2001-189417 20010622 JP 2003064063 20030305 JP 2002-233086 20010622 Α EP 2001-941174 EP 1292585 20030319 20010622 A1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
BR 2001011835 A 20030429 BR 2001-11835 20010622 HU 2003001301 A2 20030828 HU 2003-1301 20010622 US 20030078251 A1 20030424 US 2002-203524 20020809 ZA 2002009055 20031107 ZA 2002-9055 20021107 MX 2002012481 20030606 MX 2002-12481 20021216 NO 2002006164 20021220 NO 2002-6164 20021220 ANSWER 22 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (Preparation); RACT (Reactant or reagent); USES (Uses) (title compds.; prepn. of dialkoxyphenyloxobenzoxarepineacetamide squalene synthase inhibitors as antihyperlipidemic and antihypercholesteremic agents) 383653-04-1 CAPLUS 4,1-Benzoxazepine-3-acetamide, 1-[3-(acetyloxy)-2,2-dimethylpropyl]-7-

L7 ANSWER 22 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN PRIORITY APPLN. INFO.: JP 2000-190253 (Continued) A 20000623 JP 2001-189417 A3 20010622 WO 2001-JP5347 W 20010622

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 136:69829



Alkoxyphenyloxobenzoxazepineacetamides [I; R = (un)substituted 1-carboxyethyl, (un)substituted carboxyalkyl, sulfonylalkyl, (carboxycycloalkyl)alkyl, etc.; RI = alkyl (un)substituted with alkanyloxy or OH groups (if R = (un)substituted 1-carboxyethyl, alkyl, 4-carboxycyclohexylmethyl, or 4-carboxyphenylmethyl, then RI must be substituted with a OH or alkanoyloxy group); R2 = lower alkyl; W = halogen] are prepared as squalene synthase inhibitors for the treatment

hyperlipidemia and the decrease of serum triglycerides and lipids. (3R, 4S)-I [R = Me(CH2)2SO2; R1 = HOCH2C(Me)2CH2; R2 = Me; W = Cl] (II) was prepared in 3 steps from hydroxyacid (III) by acetylation of the hydroxyl group with acetic anhydride, treatment of the acid with thionyl chloride in THF to generate the acid chloride in situ, and addition of the

mixture to a solution of PrSO2NH2 in THF to provide the acetylated methoxyphenyloxobenzoxazepineacetamide I [R = PrSO2; Rl = AcoCH2C(Me)2CH2;

R2 = Me; W = Cl]; hydrolysis of the acetoxy group with aqueous sodium hydroxide and ethanol provides II. Data for the inhibition of squalene synthase by I are given. Pharmaceutical compns. containing I [R = 3-(HOZCCH2CH2)CGH4; Rl = HOCH2CMe2CH2; R2 = Me; W = Cl] are specified. IT 383653-04-IP 383653-43-3P 383653-20-IP 383653-31-4P 383653-40-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-2-oxo-N-(propylsulfonyl), (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

383653-14-3 CAPLUS
4,1-Benzoxazepine-3-acetamide, N-(butylsulfonyl)-7-chloro-5-(2,

dimethoxyphenyl)-1,2,3,5-tetrahydro-1-(3-hydroxy-2,2-dimethylproxy))-2-oxo-, (3R,5S)- (CA INDEX NAME)

MN 383653-20-1 CAPLUS
CN 4,1-Benzoxazepine-3-acetamide,
1-[3-(acetyloxy)-2,2-dimethylpropyl]-N-[[3-

ANSWER 22 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (acetyloxy)propyl]sulfonyl]-7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-2-oxo-, (3R,5S)- (CA INDEX NAME)

383653-31-4 CAPLUS
4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5tetrahydro-1-(3-hydroxy-2,2-dimethylpropyl)-2-oxo-N-[3-(phenylthio)propyl]sulfonyl]-, (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

383653-40-5 CAPLUS 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxypheny1)-1,2,3,5-tetrahydro-1-(3-hydroxy-2,2-dimethylpropy1)-2-oxo-N-[[3-(2-pyridinylthio)propy1]sulfony1]-, (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L7 ANSWER 22 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry. Rotation (-).

 $383653-09-6 \quad \text{CAPLUS} \\ 4,1-\text{Benzoxazepine-3-acetamide, } 1-\left[3-\left(\text{acetyloxy}\right)-2,2-\text{dimethylpropy1}\right]-\text{N-}$ 

L7 ANSWER 22 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (butylsulfonyl)-7-chloro-5-(2,3) , (3R,5S)- (CA INDEX NAME) Mimethoxyphenyl)-1,2,3,5-tetrahydro-2-oxo-

Absolute stereochemist Rotation (-).

383653-25-6 CAPLUS 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-

tetrahydro-1-(3-hydroxy-2,2-dimethylpropyl)-N-[(3-hydroxypropyl)sulfonyl]-2-oxo-, (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

 $383653-35-8 \quad CAPLUS \\ 4,1-Benzoxazepine-3-acetamide, 1-[3-(acetyloxy)-2,2-dimethylpropy1]-7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-2-oxo-N-[[3-(phenylthio)propy1]sulfonyl]-, (3R,5S)- (CA INDEX NAME)$ 

L7 ANSWER 22 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry. Rotation (-).

Absolute stereochemistry. Rotation (-).

OS.CITING REF COUNT:

THERE ARE 7 CAPLUS RECORDS THAT CITE THIS

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L7 ANSWER 23 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:935563 CAPLUS

DOCUMENT NUMBER: 136:54021
Thyroid receptor liqands, namely
3,5-dichloro-4-(3-bromo-4-amidophenoxy)phenylacetic acids and analogs, pharmaceutical compositions comprising them, and their use in the treatment of disorders influenced by thyroid hormones

INVENTOR(S): Li, Yi-Lin; Malm, Johan; Litten, Chris; Garcia Collazo, Ana Maria; Garg, Neeraj

PATENT ASSIGNEE(S): Naro Bio AB, Swed.

POCUMENT TYPE: PIXEND

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	CENT I																
	2001																
	W:	AE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PΤ,
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,
		UΖ,	VN,	YU,	ZA,	zw											
	RW:						MZ,										
							GB,										BF,
							GΑ,										
CA	2412	161			A1		2001	1227		CA 2	001-	2412	161		2	0010	615
	2412																
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	R:						ES,					LI,	LU,	NL,	SE,	MC,	PT,
							RO,								_		
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	0000							05.00			007					00.70	
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										NO 2	001-	PDCO	1.5		u o	0010	C1 5
												PE 00					

L7 ANSWER 23 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

The invention relates to compds. I or pharmaceutically acceptable salts thereof [wherein: R1 = (un)substituted aryl, heteroaryl, alk(en/yn)yl, cycloalkyl; R2 = H, halo, NO2, CN, aryl, heteroaryl, alk(en/yn)yl, cycloalkyl; R1 can be linked to R2, thus forming an (un)substituted aza-containing C5-8 heterocyclic ring; Q = CO, SO, SO2, NHCS, or NHCO; R3, R4

halo, (un)substituted alk(en/yn)yl, cycloalkyl, or bioisosteric

= nat0, tun; substitution = nat0, tun; substitution = nat0, tun; sequivalent; sequivalent; sequivalent; sequivalent; sequivalent; sequivalent; sequivalent; sequivalent = nat0, tun; sequivalent = n

= CO2H, PO(OH)2, PO(OH)NH2, SOZOH, CONHOH, NHCOCO2H, NHCOCH2CO2H, CONHSOZR', or CONR'R'' (R' and R'' not explicitly defined) where the amine

portion is derived from an L- or D-amino acid or a mixture; or any other possible bioisosteric equivalent of all the groups above; including all stereoisomers, and prodrug esters]. Also disclosed are methods of preparing

I, and methods for using them, such as in the regulation of metabolism

thyroid receptor ligands, and are preferably selective for the thyroid hormone receptor  $\beta$ . Over 80 examples are given. For instance, 3,5-dichloro-4-(3-bromo-4-isobutyramidophenoxy)phenylacetic acid (II) was prepared in 9 steps as follows: (1) bromination of 2,6-dichlorophenol in

4-position (85%), (2) etherification with 4-fluoronitrobenzene (45%), (3) coupling of the bromide with HC.tplbond.CSiMe3 (53%), (4) desilylation

oxidation to an acid, (5) conversion to the Me ester, (6) hydrogenation of

the nitro group, (7) ring bromination adjacent to amino (57%), (8) amidation of the amino group with isobutyryl chloride (40%), and (9) alkaline

L7 ANSWER 23 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued hydrolysis of the ester (82%). Compds. I of the examples bound to thyroid (Continued)

old
receptor β with IC50 values of 0.2 nM to 10,000 nM.
383180-96-9P, N-[[3,5-Dichloro-4-(3-bromo-4isobutyramidophenoxy)phenyl]acetyl]benzenesulfonamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)
(drug candidate; preparation of
dichloro(bromoamidophenoxy)phenylacetic
acids and analogs as thyroid hormone receptor ligands)
RN 383180-96-9 CAPLUS
CN Benzeneacetamide, 4-[3-bromo-4-[(2-methyl-1-oxopropyl)amino]phenoxy]-3,5dichloro-N-(phenylsulfonyl)- (CA INDEX NAME)

OS.CITING REF COUNT: 11

THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

ANSWER 24 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 2001:814242 CAPLUS
MENT NUMBER: 135:350442
E: Silver halide photographic emulsions with high
sensitivity and their photographic materials for fast
development
NTOR(S): Nakamura, Akio; Hioki, Takanori
NT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
CE: Jpn. Kokai Tokkyo Koho, 55 pp.
CODEN: JKXKAF
MENT TYPE: Patent ACCESSION NUMBER: DOCUMENT NUMBER:

TNVENTOR (S) . PATENT ASSIGNEE(S): SOURCE:

Patent Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
	JP 2001312023	A	20011109	JP 2000-132280		20000501
<						
	CN 1322965	A	20011121	CN 2001-115707		20010429
	CN 1322903	A	20011121	CN 2001-113707		20010425
<						
	CN 1229688	C	20051130			
	US 20020012891	A1	20020131	US 2001-845355		20010501
<						
	US 6762015	B2	20040713			
		DZ	20040713	JP 2000-132280	_	20000501
PRIO	RITY APPLN. INFO.:			JP 2000-132280	A	20000501
<						
ASSTO	NIMENT HISTORY FOR II	SPATEN	T AVAILABLE	IN USHS DISPLAY FO	RMAT	

RY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT MARPAT 135:350442 OTHER SOURCE(S):

R SOURCE(S): MARRAT 135:350442
The photog emulsions preventing fog in fast development, contain  $\geq 2$  color sensitizing dyes Dye(ArC)pMm [Dye = dye part (cyanine dye, etc.);  $\lambda = 1$  inking group; Q = dissociable group, at least one of them is not SO3H; M = counter ion; r = 0, 1;  $q \ge 1$ ;  $m \ge 0$  (for neutralizing intramol. charges)]. The emulsions may be chemical

sensitized

by Se compds. and may contain tabular silver halide grains. 364367-01-1364367-U1-1 RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)

sensitizers for antifogging silver halide emulsions) (photog. dye sen. 364367-01-1 CAPLUS

364367-01-1 CAPLUS
Benzothiazolium, 5-chloro-2-[2-[[5-fluoro-3-(3-sulfopropyl)-2(3H)-benzothiazolylidene|methyl]-1-buten-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ACCESSION NUMBER:

DOCUMENT NUMBER:

ANSWER 25 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
201:729885 CAPLUS
MENT NUMBER: 135:296112
Color photographic emulsion with improved solution storage stability and color photographic paper with high sensitivity and image graininess
Ohzeki, Katsuhisa; Nakamura, Tetsuo; Hioki, Takanori
FUT ASSIGNEE(S): FUT Photo Film Co., Ltd., Japan
EUR. Pat. Appl., 91 pp.
CODEN: EPXXDW
MENT TYPE: EURAGE. PATENT PROBLEM
LLY ACC. NIM. COUNT: 1 INVENTOR (S) .

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO. EP 1139164 R: AT, BE														
	R:			DE,		FR,	GB,	GF	t, IT,	LI,	LU,	NL,	SE,	MC,	P
JP	2001					1214		JP	2000-	9182	5		2	0000	32
JP	2001	3437	24	А	2001	1214		JP	2000-	2386	42		2	0000	80
TD	4115	026		В2	2008	2200									
	2001			A A				.TD	2000-	2701	17		2	nnnn	an
OI	2001	343)			2001	1217		OI	2000-	2,01	_ ,		-	0000	,,,
JP	2001	3437	22	A	2001	1214		JP	2000-	2924	46		2	0000	92
JP	4253	428		В2	2009	0415									
JP	2001	3437	23	A	2001	1214		JP	2001-	8555	6		2	0010	32
US	2002	0110	764	A1	2002	3815		US	2001-	8160	62		2	0010	32
US	6566	044		В2	2003	0520									
CN	1316	674		A	2001	1010		CN	2001-	1178	99		2	0010	32
	1221	053			2005										
	1347			A				CNT	2001-	1/22	25		2	0010	9.
CIA	134)	000			2002	0001		CIV	2001-	1455	00		-	0010	,,
CN	1228	684		C	2005	1123									
US	2002	0072	019	A1	2002	0613		US	2001-	9609	81		2	0010	92
IIS	6649	336		B2	2003	1118									
	Y APF				2000			JP	2000-	8648	9		A 2	0000	32
								JP	2000-	9182	5		A 2	0000	32
								JP	2000-	2386	42		A 2	0000	80
								.TD	2000-	2924	16		a 2	nnnn	92
								OI.	2000	2727	-10		11 2	0000	,,

MARPAT 135:296112

L7 ANSWER 25 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

The purpose of the present invention is to provide silver halide photog. materials that are excellent in photog. speed as well as image graininess and exhibit low residual color even after rapid processing. A silver halide photog. material comprises a compound represented by formula I (Y

II

group necessary to form heterocyclic ring or a benzene ring; Z1, Z2 = group or a single bond necessary to form a nitrogen-containing heterocyclic ring; R = alkyl, aryl, heterocyclic ring; L1, L2 = methine; p = 0-1; M = counter ion; m = 0-1; D = group necessary to form a methine dye), and a compound represented by formula II (R31, R32 = alkyl, aryl, heterocyclic ring; L31-L37 = methine group; p31, p32 = 0-1; p3 = 0-4; M3 = counter ion; m3 = 0-1; Z31, Z32 = group necessary to form a nitrogen-containing heterocyclic ring).

IT 364366-98-3 364367-01-1

RL: TEM (Technical or engineered material use), USES (Uses) (sensitizing dye; color photog. emulsion with improved solution

storage

age stability and color photog. paper with high sensitivity and image graininess) 364366-98-3 CAPLUS

RN 364366-98-3 CAPLUS
CN Benzoxazolium,
5,6-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-2-[2[[5-phenyl-3-(3-sulfopropyl)furo[2,3-d]oxazol-2(3H)-ylidene]methyl]-1buten-1-yl]-, inner salt (CA INDEX NAME)

L7 ANSWER 25 OF 109 CAPLUS COPPRIGHT 2010 ACS on STN (Continued) 364367-01-1 CAP Benzothiazolium, benzothiazolylia oxoethyl]-, inse s -chloro-2-[2-[[5-fluoro-3-(3-sulfopropy1)-2(3H)-e]methyl]-1-buten-1-yl]-3-[2-[(methylsulfony1)amino]-2-salt (CA INDEX NAME) -03S THERE ARE 1 CAPLUS RECORDS THAT CITE THIS OS.CITIN REF COUNT: (3 CITINGS)
THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFER ICE COUNT:

ANSWER 26 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 2001:252935 CAPLUS
MENT NUMBER: 134:280607
E: Preparation of acyl sulfonamide derivatives as selective inhibitors of human chymase
NTOR(S): Aoyama, Yukio; Seki, Masaki; Masuda, Hirokazu; Usui, Yoshihiro; Abe, Yuji; Shimada, Mayumi; Yamamoto, Michiya
NT ASSIGNEE(S): Mitsubishi Chemical Corp., Japan
GE: CODEN: JYKXAF
MENT TYPE: JPACE. NUM. COUNT: 1 ACCESSION NUMBER: DOCUMENT NUMBER: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. JP 2001097946 20010410 19990930 Α JP 1999-278376 PRIORITY APPLN. INFO.: JP 1999-278376

OTHER SOURCE(S): MARPAT 134:280607

R SOURCE(S): MARPAT 134:280607
The title compds. represented by formula RICH(KR2)CONHSO2R3 [R1 = (un) substituted Ph, naphthyl, H; R2 = halo, alkoxy, NH2, acyl, cyano, CO2H, NO2, (un) substituted Ph, H; provided that R1 and R2 are not simultaneously H; R3 = (un) substituted aryl; X = O, S(O)n; wherein n = O-2], pharmacol. acceptable salts thereof or hydrates or solvates thereof are prepared These compds. are useful for the prevention and/or themst

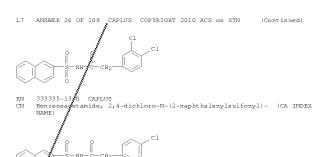
tment
of hypertension, ischemic heart failure, myocardial diseases,
arteriosclerosis, coronary arterial diseases, myocardial infarction,
vascular restenosis after angioplasty or thrombolytic therapy, peripheral
circulation disorders, angititis, diabetic or non-diabetic nephropathy,
pulmonary hypertension, bronchial asthma, chronic obtrusive lung

ses, chronic bronchitis, pulmonary emphysema, allergic rhinitis, atopic dermatitis, rheumatism, arthritis, or cancer (no data). Thus, a solution of

ion of diphenylacetic acid in THF was added dropwise to a solution of 1,1'-carbonyldidmidazole in THF, stirred at 25° for 0.5 h. refluxed fro 0.5 h, and cooled to 25°, followed by adding dropwise a solution of 2-naphthalenesulfonamide and 1,8-diazabicyclo[5.4.0]-7-undecene in

and the resulting mixture was stirred at 25° overnight to give 95% N-(2-naphthalenesulfonyl)diphenylacetamide, i.e. N-(diphenylacetyl)-2-naphthalenesulfonamide.
333335-12-9F, N-(2-Naphthalenesulfonyl)-2-(3,4-dichlorophenyl)acetamide 333335-13-0F, N-(2-Naphthalenesulfonyl)-2-(4,4-dichlorophenyl)acetamide RL: SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PEFE (Preparation); USES (Uses) (preparation of acyl sulfonamide derivs. as selective inhibitors of n

chymase and preventives or therapeutics for chymase-related diseases)
333335-12-9 CAPLUS
Benzeneacetamide, 3,4-dichloro-N-(2-naphthalenylsulfonyl)- (CA INDEX
NAME)



(Continued)

ANSWER 27 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2001:247309 CAPLUS 134:280845 DOCUMENT NUMBER: Preparation of acylsulfonamide derivatives as chymase inhibitors
Aoyama, Yukio; Seki, Maki; Masuda, Hirokazu; Usui, Yoshihiro; Abe, Yuji; Shimada, Mayumi; Yamamoto, TITLE: INVENTOR(S): Yoshihiro; Abe, Yuji; Shimada, Mayumi; Mutsuya Mitsubishi Chemical Corporation, Japan PCT Int. Appl., 259 pp. CODEN: PIXXD2 Patent PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Japanese PATENT NO. KIND DATE APPLICATION NO. DATE WO 2001023349 A1 20010405 WO 2000-TP6695 20000928 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, HU, ID, IL, INI, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LU, LV, MA, MN, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, YU, ZA, ZW
GH, GM, KE, LS, MN, MZ, SD, SL, SZ, TZ, UG, ZW, AT, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
LN. INFO: BB, BG, BR, BY, BZ, CA, CH, CN, ES, FI, GB, GD, GE, GH, GM, HR, KP, KR, KZ, LC, LK, LR, LS, LT, MK, MZ, NO, NZ, PL, FT, RO, RU, TR, TT, TZ, UA, UG, US, UZ, VN,

CF, CG, C PRIORITY APPLN. INFO.: A 19990930 JP 1999-278375 A 19990930 <--JP 1999-278377 A 19990930 JP 1999-278378 A 19990930

JP 1999-278379

A 19990930

MARPAT 134:280845 OTHER SOURCE(S):

FORMAT

AB The title compds. RICH[(CH2R2)n](NH)mCONHSOZR3 [R1 = (un)substituted heterocyclyl, etc.; n = 1 -4; m = 0 or 1; R2 = (un)substituted heterocyclyl, etc.; when R2 is (un)substituted aryl, R3 is (un)substituted naphthyl, heterocyclyl; when R2 is (un)substituted heterocyclyl, R3 is (un)substituted Ph, naphthyl, heterocyclyl] are prepared The title

as. are useful as remedies for hypertension. The title compound I in vitro showed IC50 of 0.66 µM against chymase. 76812-31-2P RL: BAC (Biological activity or effector, except adverse); BSU

(Biological

logical study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (USes) (preparation of acylsulfonamide derivs. as chymase inhibitors) 76812-31-2 CAPLUS |
1H-Indole-3-acetamide, 1-(4-chlorobenzoyl)-5-methoxy-2-methyl-N-[(4-methylphenyl)sulfonyl]- (CA INDEX NAME)

ANSWER 27 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) THERE ARE 4 CAPLUS RECORDS THAT CITE THIS OS.CITING REF COUNT: (4 CITINGS)
THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

ANSWER 28 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 2001:210100 CAPLUS
MENT NUMBER: 134:259141
E: Silver halide photographic material with reduced dye stain
NTOR(S): Nakamura, Akio; Morimura, Kimiyasu
NT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 41 pp.
COEN: JKXXAF
MENT TYPE: UNGGE: Japanese
LY ACC. NUM. COUNT: 1
Jung 18 OF ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. A JP 2001075224 20010323 JP 1999-246122 19990831 US 6458524 20021001 US 2000-643717 20000823

<--ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 134:259141

JP 1999-246122

$$\begin{array}{c} V^{3} \\ V^{2} \\ V^{2} \\ V^{1} \\ \end{array} \begin{array}{c} Z^{1} \\ N \\ R^{1} \\ \end{array} \begin{array}{c} L^{1} = \begin{bmatrix} L^{2} - L^{3} \\ N \end{bmatrix} \begin{array}{c} W^{4} \\ N \\ R^{2} \\ \end{array} \begin{array}{c} W^{3} \\ W^{2} \\ \end{array}$$

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): GI

The material contains  $\ge 1$  I (Z1, Z2 = 0, S, Se, Te, NR; R = alkyl, aryl, heterocycle; L1-3 = methine; n1 = 0-3; V1-4, W1-4 = H, substituent;  $\pi v$  or  $\pi w$   $\le 0.70$  ( $\pi v$  and  $\pi w$  are sum of  $\pi$  values of V1-4 and W1-4 resp.); M = counter ion; m = number required to neutralize intramol. charge; R1 = alkyl, aryl, heterocycle; R2 = LakaCONHSOZRa, LbkbSOZNHACOR, LokCONNCORc, LdkdSOZNHSOZRd, LekeCOH; Ra, Rb, Rc, Rd = alkyl, aryl, heterocycle, alkoxy, aryloxy, heterocyclyloxy, amino; La,

Lc, Ld, Le = methylene; ka, kb, kc, kd, ke  $\geq 1$ ). The material comprises an emulsion layer containing  $\geq 1$  of I, II (Z3, Z4 = O, S; A1 =

19990831

ANSWER 28 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) H, alkyl; either V5 or W5 = Cl, Br, I, trifluoromethyl, Et, benzoyl, 1-pyrrolyl; the other V5 or W5 = H, F, Me, methylthio, ethoxy, ethoxycarbonyl, 2-pyridyl, 4-pyridyl; M1 = counter ion; m1 = no. required to neutralize intramol. charge; R3 = sulfo-substituted alkyl; Lf = methylene; k = 1-3), and III (25, Z6 = O, S; A2 = H, alkyl; V6 = H, F,

methylthio, ethoxy, ethoxycarbonyl, 2-pyridyl, 4-pyridyl; W6 = Cl, Br, I, trifluoromethyl, Et, benzoyl, 1-pyrrolyl; M2 = counter ion; m2 = no. required to neutralize intramol. charge; R4 = sulfo-substituted alkyl; Rg = alkyl; Ig = methylene; k = 1-3) and also contg. Ag halide grains with 3-100 av. aspect ratio. It shows high sensitivity and reduced dye stain. 331229-77-7
RL: DEV (Device component use); USES (Uses) (photog. sensitizer giving high sensitivity and reduced residual n)

-03S- (CH2)4

ANSWER 29 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 2001:117202 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 134:185877 Silver halide photographic material 11 fLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE: TITLE: Hio, Takanori
Fuji Photo Film Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2001042467	A	20010216	JP 1999-213977	19990728
<					
	US 6348307	B1	20020219	US 2000-625324	20000725
<					
PRIO	RITY APPLN. INFO.:			JP 1999-213977 A	19990728
<					

PRIORITY APPLN. INFO.:

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The Ag halide photog. material comprises 21 methine dye represented
by (dyel)(R1)q(R2)r Miml (dyel = methine dye; M1 = charge-neutralizing
counter ion; m1 = number needed for neutralization; q, r21; R1 = alkyl
derivative group) in ≥1 Ag halide emulsion layer which contains Ag
halide grains ≥50% with an aspect ratio 3-100. The use of above
sp. methine dyes in the Ag halide emulsion layer provided high
sensitivity
and little residual color.

326494-02-4 326494-04-6 326494-06-8
RL: TEM (Technical or engineered material use); USES (Uses)
(silver halide photog. emulsion layer containing)

RN 326494-02-4 CAPLUS

CN Benzothiazolium, 5-chloro-2-[[5-chloro-3-(2-hydroxy-3-sulfopropyl)-2(3H)benzothiazolium, 5-chloro-2-[[-(methylsulfonyl)amino]-2-oxoethyl]-,
inner salt (CA INDEX NAME)

10/541,429

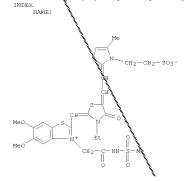
326494-04-6 CAPLUS
Benzothiazolium, 5-chloro-2-[2-[[5-chloro-3-(2-hydroxy-3-sulfopropyl)-2(3H)-benzothiazolylidene]methyl]-1-buten-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

(Continued)

ANSWER 29 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

сн-сн<sub>2</sub>-so<sub>3</sub>--NH-- Me

4-06-8 CAPLUS
hiazolium, 2-[(3-ethyl-5-[2-[4-methyl-3-(2-sulfoethyl)-2(3H)0ylidene]ethylidene]-4-oxo-2-thiazolidinylidene]methyl]-5,6hoxy-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA thiaz dimet



ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN APLUS COPYRIGHT 2010 ACS on STN 20011:93900 CAPLUS 134:164473 Acylsulfonamido-substituted polymethine fluorescent dyes and their use as fluorescent coloring materials and/or markers for biomolecules Deroover, Geert, Missfeldt, Michael; Simon, Lydia Bayer A.-G., Germany Ger. Offen., 68 pp. CODEN: GWXEX PATENT GENERAL COMMISSION OF THE ACCESSION NUMBER: DOCUMENT NUMBER: INVENTOR (S) PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

												LICAT						
		1993										 1999-					9990	
<																		
<	CA	2381	088			A1		2001	0215		CA 2	2000-	2381	088		2	0000	724
<b>~</b>	CA	2381	088			С		2010	0112									
	WO	2001	0113	70		A1		2001	0215		WO 2	2000-	EP 70	70		2	0000	724
<		T-7 -	70.777	20	7. 7	2.24	20.00	20.00	7.17	T2 75	DD	BG,	DD.	DV	72.77	CA	CII	CN
		w.										FI,						
												KR.						
			LU.	LV.	MA.	MD.	MG.	MK.	MN.	MW.	MX.	MZ.	NO.	NZ.	PL.	PT.	RO.	RU.
			SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,
				ZA,														
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,
			CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG			
	EP	1206	703			A1		2002	0522		EP 2	2000-	9582	89		2	0000	724
		R:										IT,	LI,	LU,	NL,	SE,	MC,	PT,
								RO,										
	JP	2003	5065	67		Т		2003	0218		JP 2	2001-	5159	74		2	0000	724
<																		
<	US	6995	262			В1		2006	0207		US 2	2002-	4877	5		2	0020	315
	ידדם	Y APP	T NI	TNEO							ישת	1999-	1007	7024		n 1	aaan	905
<	1111.	L PIEE	1314.	11410							υш .	1000-	1000	1029		n 1	2220	000
•											WO 2	2000-	EP 70	70		W 2	0000	72.4

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S):

MARPAT 134:164473
AB Polymethine dyes containing (1) at least one acylsulfonamido group of the formula (CH2)nYNHAR, where A and Y are electron-donating groups such as

or SO2, R = optionally substituted alkyl or aryl, and n = 1-9 and (2) and at least one other functional group are effective as fluorescent coloring materials or markers for biomols. The polymethine dyes have improved light stability compared to prior-art indole or squaric acid-based materials when used with RNA, DNA, or proteins. Examples of preparation

ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
325143-23-5
325143-23-6
325143-26-7
325143-26-8
325143-26-8
325143-26-8
325143-26-8
325143-26-8
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ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-A

PAGE 1-A

PAGE 2-A

PAGE 2-A

PAGE 2-A

PAGE 2-A

(CH12)5

Me Me Me Solution Strong Strong

NN 32-1-30-3 CAFBOS (AFBOS )

N 1H-Benz[e]indolium, 2-[[3-[[1,3-dihydro-1,1-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-7-sulfo-2H-benz[e]indol-2-ylidene]methyl]-2-mercapto-4,5-dithioxo-2-cyclopenten-1-ylidene]methyl]-3-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,1-dimethyl-7-sulfo-, inner salt, dipotassium salt (9CI) (CA INDEX NAME)

L7 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

(Continued)

PAGE 2-A

\*\*RN 324745-37-1 CAPLUS
CN 1H-Benz[e]indolium, 2-[5-[1,3-dihydro-1,1-dimethyl-3-[2
\*\*Members and selection of the selection of the

RN 325143-23-5 CAPLUS

(Continued)

ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) Cyclobecapediylium,  $1-[[1,3-\mathrm{dihydro}-1,1-\mathrm{dimethyl}-3-[2-[(\mathrm{methyliswifonyl)}-\mathrm{amino}]-2-\mathrm{costabyl}]-7-\mathrm{sulfo-2H-benz}[e]\mathrm{indol}-2-ylidene]\mathrm{methyl}^3, [[3-[6-[(2,5-\mathrm{dioxol}-pyrrolidinyl)oxy]-6-\mathrm{oxohexyl}]-1,3-\mathrm{dihydro}-1,1-\mathrm{dimethyl}^3,2-\mathrm{sulfo-2H-benz}[e]\mathrm{indol}-2-ylidene]\mathrm{methyl}^1-2,4-\mathrm{dihydro-y}$ , bis(inner saxt), dipotassium salt (9CI) (CA INDEX NAME) L7 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 325143-25-7 CAPLUS
Cyclobutenediylium, 1-[[1,3-dihydr.3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxothyl]-5 2 [fo-2H-indol-2-ylidene]methyl]-3-[[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxothexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]methyl]-2,3 dihydroxy-, bis(inner salt), dipotassium salt (9CI) (CA INDEX NAME)

325143-24-6 CAPLUS

325143-24-6 CAPLUS Cyclobutenediylium, 1-[[1,3-dihydro-1,1-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-7-sulfo-2H-benz[e]indol-2-ylidene]methyl]-3-[[3-[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]-1,3-dihydro-1,1-dimethyl-7-sulfo-2H-benz[e]indol-2-ylidene]methyl]-2,4-dimercapto-, bis(inner salt), dipotassium salt (9CI) (CA INDEX NAME)

ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (dye; prodn. of acylsulfonamido-substituted polymethine fluorescent markers for biomols.)
325143-27-9 CAPLUS
Cyclobutenediylium, 1-[[1-(5-carboxypentyl)-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]methyl]-3-[[1,3-dihydro-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-2H-indol-2-ylidene]methyl]-2,4-dihydroxy-, bis(inner salt), monopotassium salt (9CI) (CA INDEX NAME) SO3H HO2C- (CH2)5 325143-26-8 CAPLUS Cyclobutenediylium, 1-[[1,3-dihydro-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-2H-indol-2-yliden0 methyl]-3-[[1-[6-[(2,5-dioxo-1-pyrrolidinyl)oxyl-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-yliden0methyl]-2,4-dimercapto-, bis(intersalt), dipotassium salt (9CI) (CA INDEX NAME) 325143-28-0 CAPLUS S25149-20-0 CAPLOS (Cyclobutenediylium, 1-[[1-(5-carboxypentyl)-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]methyl]-3-[[1,3-dihydro-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-2H-indol-2-ylidene]methyl]-2,4-dihydroxy-, bis(inner salt), disodium salt (9CI) (CA INDEX NAME) HORS . CH2)5 но2с- (сн2)5 ●2 Na ● 2 324745-40-6P 324745-43-9P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); 325143-27-9P 325143-28-0P RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (Reactant or reagent) (intermediate; production of acylsulfonamido-substituted polymethine

(Continued)

03/27/2010

L7 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
fluorescent dye markers for biomols.)
RN 324745-40-6 CAPLUS
CN 3H-Indolium, 2, 3, 3-trimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-, inner salt (CA INDEX NAME)

324745-43-9 CAPLUS
1-Butanaminium, N,N,N-tributyl-, 2,3-dihydro-2-[(2-hydroxy-3,4-dioxo-1-cyclobuten-1-yl)methylene]-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-1H-indole-5-sulfonate (1:1) (CA INDEX NAME)

CRN 324745-42-8 CMF C18 H17 N2 O9 S2

CM 2

CRN 10549-76-5 CMF C16 H36 N

OS.CITING REF COUNT:

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS

L7 ANSMER 31 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:10636 CAPLUS
DOCUMENT NUMBER: 134:78655
TITLE: Heat-sensitive imaging element with cover layer for providing a lithographic printing plate
INVENTOR(S): Vermeersch, Joan; Van Damme, Marc
Agfa-Gevaert N.V., Belg.
SOURCE: EUL. Pat. Appl., 9 pp.
CODEN: EPEXEDW
DOCUMENT TYPE: Patent
LANGUAGE: Foath
English
FAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

<		PATENT NO. EP 1065049					-	DATE  2001			LICAT 2000-	 		-	DATE  20000524		
		1065 R: 6503	AT, IE,			B1 DE, LV,			FR,		, IT,		NL,		MC,		
<		2001		47		A		2001			2000-	 			0000		
PRIO	RIT	Y APP	LN.	INFO	. :						1999- 1999-	 			9990 9990		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

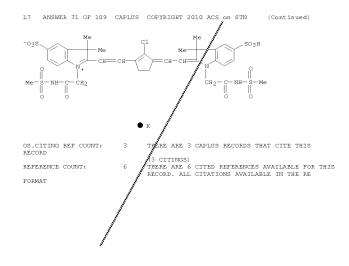
AB The invention relates to heat-sensitive material for preparing lithog.

plates. The invention provides a heat-sensitive material for making
lithog, printing plates comprising on a lithog, support an image-forming
layer comprising a hydrophilic binder a crosslinking agent for a
hydrophilic binder and dispersed hydrophobic thermoplastic polymer
particles, characterized in that the said image-forming layer is covered
with a layer comprising at least one organic compound comprising cationic
groups. groups. 251640-76-3

IT 251640-76-3
RL: DEV (Device component use); NUU (Other use, unclassified); TEM
(Technical or engineered material use); USES (Uses)
(heat-sensitive imaging element with cover layer for providing lithog.
printing plate coated with IR-sensitive layer containing)
251640-76-3 CAPLUS
3H-Indolium, 2-[2-[2-chloro-3-[2-[1,3-dihydro-3,3-dimethyl-1-[2-

[(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-2H-indol-2-ylidene]ethylidene]l-cyclopenten-1-yl]ethenyl]-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2oxoethyl]-5-sulfo-, inner salt, potassium salt (1:1) (CA INDEX NAME)

L7 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



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	TENT INFORMATION:  PATENT NO. KIND DATE APPLICATION NO. DATE																		
	WO	2000	0390	//		A2		2000	0706	MO 1999-182084						19991223			
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	BR	9916	851			A		2001	1016		BR 1	999-	1685	1		1:	9991	223	
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	EP	1144	370			A2 20011017 EP 1999-962486 19991223										223			
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ANSWER 32 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) study); PREP (Preparation); USES (Uses) (prepn. of (hydroxyphenoxy)phenylacetyl amino acids and related to the control of th (Continued)

20030528

20021008

20100127 20030320

20040227

20050126

20010821

JP 2000-590990

AU 2000-18855

NZ 1999-512422

CN 1999-815057

NO 2001-2931

HU 2001004666

JP 2002533432

JP 4405088 AU 758202

NZ 512422

CN 1186332

NO 2001002931

ds.

as novel thyroid receptor ligands)
280777-90-4 CAPLUS
Benzeneacetamide, 3,5-dibromo-N-[[5-(dimethylamino)-1naphthalenyl]sulfonyl]-4-[4-hydroxy-3-(1-methylethyl)phenoxy]- (CA INDEX
NAME)

PAGE 1-A

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20010613

PAGE 2-A

280777-91-5 CAPLUS Benzeneacetanide, N-[(4-aminophenyl)sulfonyl]-3,5-dibromo-4-[4-hydroxy-3-(1-methylethyl)phenoxy)- (CA INDEX NAME)

L7	ANSWER 32 OF 109 ZA 2001004932	CAPLUS A	COPYRIGHT 20030115	2010 ACS on STN ZA 2001-4932	(Continued) 20010615
<	MX 2001006482	A	20010910	MX 2001-6482	20010622
<	IN 2001KN00754	A	20050311	IN 2001-KN754	20010720
<	US 6989402	B1	20060124	US 2001-868889	20010914
<	US 20050282872	A1	20051222	US 2005-189654	20050726
	US 7288571	B2	20071030		
PRIO	RITY APPLN. INFO.:			GB 1998-28442	A 19981224
				WO 1999-IB2084	W 19991223
<					

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 133:89793

Title compds. I [R1 = halo, trifluoromethyl, alkyl, cycloalkyl; R2, R3 = H, halo, alkyl, at least one of R2 and R3 being other than H; n = 0-4; R4 is an (un)substituted heteroarom. molety linked to (CR2) via a natirogen or carbon atom; an amine, including those in which the amine is derived from an alpha amino acid of either L- or D-stereochem., an acylsulfonamide, or a carboxylic acid amide, with the proviso that when n = 0, then R4 can only be a carboxylic acid amide or an acylsulfonamide; AB

is H or an acyl or other group capable of bioconversion to generate the free phenol structure] were prepared for use in the treatment of diseases associated with metabolism dysfunction or which are dependent on the

expression
of a T3 regulated gene (such as obesity, hypercholesterolemia,
atherosclerosis, depression, osteoporosis, hypothyroidism, goiter,

thyroid

cancer, glaucoma, cardiac arrhythmia, and congestive heart failure).

Thus, coupling of
3,5-dibromo-4-(4-hydroxy-3-isopropylphenoxy)phenylacetic
acid with D-methionine Me ester hydrochloride followed by hydrolysis
afforded N-[3,5-dibromo-4-(4-hydroxy-3-isopropylphenoxy)phenylacetyl]-Dmethionine afforded N-[9] war-: methionine.

280777-90-4P 280777-91-5P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological

L7 ANSWER 32 OF 109 CAPLUS COPYRAGHT 2010 ACS on STN (Continued) THERE ARE 30 CAPLUS RECORDS THAT CITE THIS RECORD (32 CITINGS) THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

REFERENCE COUNT:

Searched by Jason M. Nolan, Ph.D.

ANSWER 33 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER:

2000:401373 CAPLUS 133:51111 DOCUMENT NUMBER:

TITLE:

133:51111
Silver halide color photographic material
Morimoto, Kiyoshi; Hioki, Takanori; Yabuki, Yoshiharu
Fuji Photo Film Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 53 pp.
CODEN: JKXXAF INVENTOR(S): PATENT ASSIGNEE(S):

DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2000162729 20000616 JP 1999-124771 19990430 PRIORITY APPLN. INFO.: JP 1998-285898 A 19980924

OTHER SOURCE(S): MARPAT 133:51111

 $M_{m1}$ 

The title photog, material possesses a hydrophilic colloid layer

containing

≥1 compound I (R1, R2 = alkyl, aralkyl, unsatd. hydrocarbon; L1-3 =

methine; M1 = counter ion; m1 ≥ 0). and ≥1 dye A:CHQ (A =

acidic nucleus; Q = aryl or aromatic heterocycle). The material shows

residual sensitizing dye stain and high sensitivity.

IT

275370-89-3
RL: DEV (Device component use); USES (Uses)
 (photog. paper containing cyanine dye sensitizer and dye)
275370-89-3 CAPLUS
Benzoxazolium, 5-fluoro-2-[2-[[5-fluoro-3-[2-[(methylsulfonyl)amino]-2coxethyl]-2(3H)-benzoxazolylidene]methyl]-1-buten-1-yl]-3-[2[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ANSWER 33 OF 109 CAPE COPYRIGHT 2010 ACS on STN (Continued)

ANSWER 34 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER:

DOCUMENT NUMBER:

NPLUS COPYRIGHT 2010 ACS on STN
2000:198391 CAPPUS
132:207842
Preparation of [[(benzisoxazolyloxy)alkyl]thio- or
-oxy]benzenealkanoates as antidiabetic agents
Berger, Gregory D.; Santini, Conrad; Patchett,

INVENTOR(S):

Toupence, Richard B.; Fitch, Kenneth; Walsh, Thomas F.; Tolman, Richard L.; Sahoo, Soumya P.; Adams,

Von Lagen, Derek; Jones, Anthony B.; Graham, Donald W.; Leibowitz, Mark; Moller, David E.; Berger, David

P.
Merck and Co., Inc., USA
S. African, 202 pp.
CODEN: SFXXAB
Patent
English PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE ZA 9700824 19981030 ZA 1997-824 19970131

PRIORITY APPLN. INFO.: US 1996-11080P

OTHER SOURCE(S): MARPAT 132:207842

CO2Me

AB Title compds. [I; R = R121YQYI; Q = (saturated) hydrocarbylene; R1 = H, (un)substituted alk(en)yl, -alkynyl; R2 = R5CR67, R5CH:CH, R5CR6R722; R3R4 = atoms to complete an (un)substituted ring containing 2 heteroatoms; R5 = COZH, alkoxycarbonyl, CONH2, tetrazolyl, etc.; R6,R7 = H or alkyl; Y = O, SOO-2, CH2, CO, NH, etc.; Y1 = O or C (sic); X2 = H, halo, alkyl, alkoxy, etc.; Z1 = (un)substituted 1,3- or 1,4-phenylene; Z2 = CR6R7, O, SOO-2, (alkyl)imino) were prepared Thus, 2,3-dihydroxy-3-propylprophenone was etherified by Br(CH2)3Br and the product thioetherified by MeOZCZSCONMe2 (Z1 = 3-chloro-1,4-phenylene) to give, in 4 addnl. steps, title compound II. Data for biol. activity of I were given.

IT 194980-41-IP
RL: BAC (Biological activity or effector, except adverse); BSU (Biological)

ANSWER 34 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of [[(benzisoxazolyloxy)alkyl]thio- or -oxy]benzenealkanoates as antidiabetic agents) 194980-41-1 CAPLUS Benzeneacetamide, 3-chloro-4-[[3-[(3-ethyl-7-propyl-1,2-benzisoxazol-6-yl)oxy]propyl]thio]-N-(methylsulfonyl)- (CA INDEX NAME)

ANSWER 35 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 2000:137452 CAPLUS MENT NUMBER: 132:187581 ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE: New sensitizer and silver halide photographic

material

SOURCE:

containing the same Hioki, Takanori; Morimoto, Kiyoshi Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 39 pp. CODEN: JKXXAF INVENTOR(S): PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2000063689	A	20000229	JP 1998-240635	19980826
<	JF 2000063669	Α	20000229	JP 1990-240635	19900026
	US 6365335	B1	20020402	US 1999-373584	19990813
<	RITY APPLN. INFO.:			JP 1998-240635 A	19980826
<	KIII AFFLM. INFO.:			0F 1990-240033 A	19900020

SSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

$$(V_p)_q \xrightarrow{\mathbb{Z}^1}_{\substack{N \\ R^1 \quad \text{Mm}}}$$

AB The photog. material contains the new sensitizer represented by general formula I (Z1 = 0, S, Ce, Te, C, N; Q = groups for forming methine dye;

= counter ion; Vp = F, etc.; q = 1-4; R1 = (La)klCONHSO2R11, (Lb)k2SO2NHCOR12, (Lc)k3CONHCOR13, (Ld)k4SO2NHSO2R14; R11-14 = alkyl, aryl, heterocycle, alkoxy, aryloxy, heterocyclyloxy, amino; La, Lb, Lc, Ld

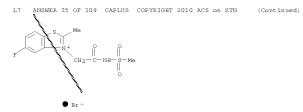
= methylene; k1, k2, k3, k4 = 1-18). The photog. material contains Ag halide grains with an average aspect ratio of 3-1,000. The photog. material

shows excellent sensitivity and reduced color residue. 259657-52-8

259657-52-8 (Uses) (Uses) (Uses) (new methine sensitizer for Ag halide photog, material with excellent sensitivity and reduced color residue) 259657-52-8 CAPLUS

Sensitivity and reduced Section 259657-52-8 (APLUS 259657-52-8 (APLUS 259657-62-8 (APLUS 25967-62-8 (APLUS 259657-62-8 (APLUS 25967-62-8 (APUS 25967-62-8 (APLUS 25967-62-8 (APUS 25967-62-8 (APUS 25967-62-8 (APUS 25967-62-8 (APUS 25967-62-8 (APUS 25967-62-8 (APUS 25967-

oxoethyl]-2(3H)-benzothiazolylidene]methyl]-3-[2-[(methylsulfonyl)amino]-2-



THERE ARE 1 CAPLUS RECORDS THAT CITE THIS (1 CITINGS)

ANSWER 35 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN oxoethyl]-, inner salt (CA INDEX NAME) (Continued)

259657-58-4P RL: DEV (Devi (Preparation) (new meth) sensitivit

.4p |
Devise component use); SPN (Synthetic preparation); PREP |
Lonj USES (Uses) |
Styles essitizer for Ag halide photog. material with excellent |
Long to and reduced color residue) |
CAPLUS |
Long to CAPLUS 259657-58 Benzothia

259657-66-4

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of new methine sensitizer for Ag halide photog. material with

excellent sensitivity and reduced color residue)

259657-66-4 captus Benzothiazolium, 5-fluoro-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

ANSWER 36 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 2000:137162 CAPLUS
E: 122:137674
E: Heat-mode lithographic original plate with improved storage stability
NTOR(S): Van Rompuy, Ludo; Meisters, August; Leenders, Luc
NT ASSIGNEE(S): AGFA Gevacet N. V. Berton, August; Leenders, Luc
NT ASSIGNEE(S): CODEN: JXXXAF
MENT TYPE: URGE: JXXXAF
MENT TYPE: Vapanese
LY ACC. NUM. COUNT.

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	ENT NO.	KIND	DATE	APPLICATION NO.		DATE
	2000062339	 A	20000229	JP 1999-200226		19990714
< PRIORITY	APPLN. INFO.:			EP 1998-202382	A	19980716

AB A neg.-working non-ablative image-forming material, suited for use in production of a lithog. printing master, comprises a metallic support coated

with a layer or a stack of layers which contains a near IR ray-absorbing compound and other reactive compds. in an amount of  $\geq$ 50 and  $\leq$ 20 weight%, resp., to all the compds. present in the layer or stack and the

near

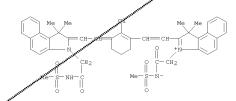
IR ray-absorbing compound is an organic compound or C-based compound The image-forming material is imagewise exposed to near IR ray followed by wiping the layer with water, if necessary, to give a lithog. printing master. The material shows good storage stability is useful in production of

iction or a lithog, printing master by computer-to-plate, computer-to-press or on-press coating process. 192220-92-1

192220-92-1 RL: DEV (Device component use); USES (Uses) (heat-mode lithog. plate containing IR aborbing compound) 19220-92-1 CAPLUS

TH-Benz[e]indolium, 2-[2-[2-chloro-3-[2-weight, 3-dihydro-1,1-dimethyl-3-[2-weight]]

[(methylsulfonyl)amino]-2-oxoethyl]-2H-twnz[e]indol-2-ylidene]ethylidene]l-cyclohexen-1-yllethenyl]-1,1-dimethyl-3-[2-[(methylsulfonyl)amino]-2oxoethyl]-, inner salt (CA INDEX NAME)



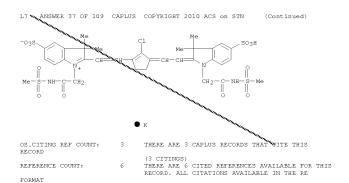
L7 ANSWER 36 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

L7 ANSWER 37 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1999:763708 CAPLUS
DOCUMENT NUMBER: 132:17163
TITLE: Heat-sensitive imaging element for lithographic plate Heat-sensitive imaging element for lithographic pl preparation Van Damme, Marc; Van Aert, Huub; Vermeersch, Joan Agfa-Gevaert N.V., Bedg. Eur. Pat. Appl., 15 pp. CODEN: EPXXDW Patent INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English PATENT NO. KIND DATE APPLICATION NO. DATE EP 960729 A1 19991201 EP 1999-200846 19990318 EP 960729 B1 20030528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RC,
US 6096471 A 20000801 US 1999-280656 19990329 JP 2000052669 20000222 JP 1999-137266 19990518 Α PRIORITY APPLN. INFO.: EP 1998-201727 <--ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT AB A heat-sensitive imaging element for lithog, plate preparation comprises support and an image-forming layer comprising a hardened hydrophilic support and an image-torming layer comprising a hardened nyaropnilic binder, a heat-switchable polymer, and a compound capable of converting light into heat, characterized in that the heat-switchable polymer is a polymer containing aryldiazosulfonate units.

251640-76-3
Rk: TEM (Technical or engineered material use); USES (Uses) (heat-sensitive imaging elements for lithog, plate preparation aining (heat-sensitive imaging examence of the containing aryldiazosulfonate group-containing polymers and)

RN 251640-76-3 CAPLUS

CN 3H-Indolium, 2-[2-[2-chloro-3-[2-[1,3-dihydro-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-2H-indol-2-ylidene]ethylidene]l-cyclopenten-1-yl]ethenyl]-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2oxoethyl]-5-sulfo-, inner salt, potassium salt (1:1) (CA INDEX NAME)



ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: INVENTOR(S):	139:130:145 Diterpene derivatives and anti-inflammatory analges agents comprising the same Suh, Young Ger; Choi, Young Hoon; Lee, Hye Kyung;	sic
Kim,	Young Ho; Park, Hyoung Sup	
PATENT ASSIGNEE(S): SOURCE:	Sae Han Pharm. Co., Ltd., S. Korea PCT Int. Appl., 53 pp. CODEN: PIXXD2	
DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:	Patent English 1	
	KIND DATE APPLICATION NO. DATE	
WO 9937600	A1 19990729 WO 1999-KR38 19990125	
W: AL, AM, AT, DK, EE, ES, KE, KG, KP, MW, MX, NO, TR, TT, UA, RW: GH, GM, KE,	AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SI, TJ, TM, UG, US, UZ, VN, YU, ZW LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, NE, ES, GR, IE, IT, LU, MC, NL, FT, SE, BF, BJ, FP, CG, CI	,
CM, GA, GN,	GW, ML, MR, NE, SN, TD, TG A 1990809 AU 1999–21876 19990125	
< EP 1056710	A1 20001206 EP 1999-901968 19990125	
EP 1056710 R: CH, DE, ES,	B1 20031210	
	T 20030121 JP 2000-528526 19990125	
	T3 20040701 ES 1999-901968 19990125	
CN 1171846	C 20041020 CN 1999-802429 19990125	
•	B1 20030715 US 2000-600774 20000915	
PRIORITY APPLN. INFO.:	KR 1998-2441 A 19980126	
<	WO 1999-KR38 W 19990125	
ASSIGNMENT HISTORY FOR US	S PATENT AVAILABLE IN LSUS DISPLAY FORMAT MARPAT 131:130145	

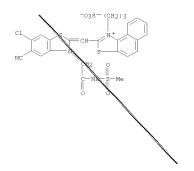
L7 ANSWER 38 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1999:487259 CAPLUS

L7 ANSWER 38 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Title compds. I [R1, R2 = H, OH; or R1R2 = part of a ring; R3 = hydroxyethyl, methoxyethyl, acetoxyethyl, methoxyethoxymethoxyethyl, methoxyethoxymethoxyethyl, methoxyethyl, isoxazolinyl, R4 = CH2OH, CH2COH, carboxyvinyl, carboxyethyl, etc.] are prepared as antiinflammatories. Thus, (-)-pimara-9(11),15-diene-4-carboxylic acid

reduced with LiAlH4 to give 4-(hydroxymethyl)-(-)-pimara-9(11),15-diene. In an in vitro study, this had an ICSO of >2000 MM against FGE2 synthesis. Antiinflammatory compns. containing I are described. 233750-12-4P
RL: ADV (Adverse effect, including toxicity), BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); FREP (Preparation); USES (Uses) (preparation of antiinflammatory diterpene derivs.) 233750-12-4 CAPLUS
1-Phenanthreneacetamide, 7-ethenyl-1, 2, 3, 4, 4a, 6, 7, 8, 8a, 9, 10, 10a-dodecahydro-N-[(4-doophenyl) sulfonyl]-1, 4a, 7-trimethyl-, (1S, 4aR, 7S, 8aS, 10aR)- (CA INDEX NAME)

ANSWER 39 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN sulfopropyl)-, inner salt (CA INDEX NAME) (Continued)



ANSWER 39 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1998:627423 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 129:323832 129:65901a,65904a

129:65901a,65904a
Photographic film containing monomethine cyanine and
providing low-fog image by rapid development
Ooya, Toyotaka
Fuji Photo Film Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 28 pp.
CODEN: JKKXAF TITLE:

INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10254084		19980925	JP 1997-58150	19970312
< PRIORITY APPLN. INFO.:			JP 1997-58150	19970312
<			OF 1337-30130	13370312

OTHER SOURCE(S): MARPAT 129:323832

The film contains  $\ge 1$  cyanine dye I (21 = naphthothiazole ring; 22 = 5-membered heterocycle; VI = CN; Rl, R2 = alkyl; L1 = methine; X1 = counter ion; n1 = pos. number for electronic neutralization) and optional II

anal II (211, 212 = 5-membered heteroazacycle). The film provides clear images without color stains. 214635-47-9

214635-47-9
RL: MOA (Modifier or additive use), USES (Uses)
 (sensitizer; photog. film containing monomet:
 low-fog image even by rapid development)
214635-47-9 CAPLUS onomethine cyanine and providing

Naphtho[1,2-d]thiazolium, 2-[[6-chloro-5-cyano-3-[2-

[(methylsulfonyl)amino]-2-oxoethyl]-2(3H)-benzothiazolylidene]methyl]-1-(3-

L7 ANSWER 40 OF 109 C ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

ANSWER 40 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1998:176447 CAPLUS
MENT NUMBER: 128:302054
INAL REFERENCE NO.: 128:59717a,59720a
Silver halide photographic material
NTOR(S): Sugar, Yoichi; Taniquchi, Makoto
NT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
GE: CODEN: JKXXAF
MENT TYPE: CODEN: JKXXAF
FACENTUMACE: Japanese
LY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 10073898	A	19980317	JP 1996-246911	19960830
<	-				
	JP 3579195	B2	20041020		
	US 6010842	A	20000104	US 1997-921359	19970829
<	-				
PRI	IORITY APPLN. INFO.:			JP 1996-246911 A	19960830

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

$$\begin{array}{c}
z^{1} \\
 & z^{1}
\end{array}$$

$$\begin{array}{c}
 & z^{1} \\
 & z^{1}
\end{array}$$

$$\begin{array}{c}
 & z^{1} \\
 & z^{1}
\end{array}$$

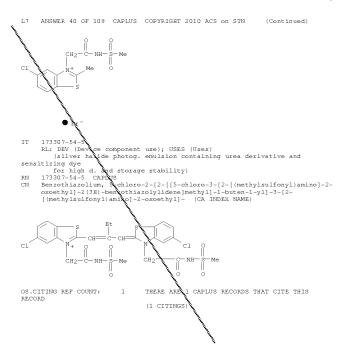
$$\begin{array}{c}
 & z^{1}
\end{array}$$

as sensitizing dye I [R = QarcONSO2Ra, QbsSO2NCORb, QctCONCORc, QduSO2NSO2Rd (Ra-Rd = alkyl, heterocyclyl, alkoxy, aryloxy, amino; Qa-Qd = methylene; r, s, t, u = 1-10); L1, L2 = methine; pl = 0 or 1, 21 = atoms required to form a 5 or 6-membered N-containing heterocyclyl; M1 = counter ion; m1 =

form a 5 or e-membered N Constance,

Old Part of the Manager of th

er
halide photog. emulsion containing urea derivative)
148350-04-3 CAPLUS
Benzothiacolium, 5-chloro-2-methyl-3-[2-[(methylsulfonyl)amino]-2oxoethyl]-, bromide (1:1) (CA INDEX NAME)



ANSWER 41 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1998:154902 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 128:263877 128:52105a,52108a 128:52105a,52108a
Silver halide photographic material using polymethine
sensitizing dye
Kaqawa, Nobuaki; Kita, Noriyasu; Nakamura, Masaki;
Ishii, Fumio
Konica Co., Japan
Jpn. Kokai Tokkyo Koho, 62 pp.
CODEN: JKXXAF
Patent TITLE: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Japanese PATENT NO. KIND DATE APPLICATION NO. DATE A JP 10062889 19980306 JP 1996-217245 19960819 JP 3430386 PRIORITY APPLN. INFO.: 20030728 19960819 JP 1996-217245 AB The title material contains a Ag halide emulsion layer spectrally sensitized with a polymethine dye in which the methine chains are replaced by 21 F and the aliphatic groups substituted on the N atom in the azole rings are linked by 23 methine groups having 21 water-soluble group. The material shows good storage stability, low residual residual dual color stain, and improved photog. properties.

205172-92-5 205172-99-2
RL: TEM (Technical or engineered material use); USES (Uses)
(silver halide photog. emulsion sensitized with polymethine dye)
205172-92-5 CAPLUS CATIONS

No. 2011/2-92-1 CATION

One of the control of the control

ANSWER 41 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

● c1 ·

ANSWER 42 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1998:147054 CAPLUS
MENT NUMBER: 128:161042
E: 128:31577a, 31580a
Photothermographic recording material comprising sensitizing dye
NTOR(S): Derower, Geert; Hoogmartens, Ivan; Strijckers, Hans
NT ASSIGNEE(S): CE: COPEN: EPXXDW
MENT TYPE: Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
MENT TYPE: Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
EACH TYPE: Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
EACH TYPE: Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
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CODEN: EPXXDW
EACH TYPE: Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
EACH TYPE: Eur. Pat. Appl., 36 pp.
CODEN: EXCENTING TYPE: Eur. Pat. Appl., 36 pp.
CODEN: EACH TYPE: EUR. PAT. Appl., 36 pp.
CO ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.: INVENTOR (S) PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. APPLICATION NO.

							-									-		
	EP	8212	66			A1		1998	0128		EP	1997	-2019	06		1	9970	521
<																		
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT	, LI,	LU,	NL,	SE,	MC,	PT,
			IE,	FI														
	US	5876	915			A		1999	0302		US	1997	-8894	81		1	9970	708
<																		
	JP	1007	3900			A		1998	0317		JP	1997	-2114	07		1	9970	722
<																		
	JP	3794	793			В2		2006	0712									
PRIO	RIT	Y APP	LN.	INFO	. :						EP	1996	-2021	08	2	A 1	9960	724
<																		
ASSI	GNM	ENT H	ISTO	RY F	OR U	S PA	TENT	AVA	ILABI	LE I	N L	SUS	DISPL.	AY E	ORMA:	Γ		
OTHE	R S	OURCE	(S):			MAR:	PAT	128:	1610	42								

AB A photothermog. recording material comprises a support and a photoaddressable thermally developable element comprising a substantially light-insensitive organic silver salt, a reducing agent therefor in thermal working relationship therewith, a photosensitive silver halide spectrally sensitized with a dye and in catalytic association with the substantially light-insensitive organic silver salt, and a binder. The dye has the general

ral formula I where, Z1, Z2 = S, O, or Se; R1, R13 = alkylene; X1, X2 = (CO)R18, (SO2)R19, or (SO)R20 where R18, R19, and R20 = alkoxy, aryloxy, amino, or substituted amino; R2-5, R14-17 = H, Cl, Br, F, I, keto, sulfo, carboxy, ester, sulfonamido, amido, dialkylamino, nitro, cyano, alkyl, alkenyl, heteroarom., aryl, alkoxy, or aryloxy which may be substituted; R2 and R3, R3 and R4, R4 and R5, R14 and R15, R15 and R16, or R16 and R17 together may constitute the atoms necessary to complete a benzene ring

(Continued)

L7 ANSWER 42 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ANSWER 42 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continue which may be substituted; R6-12 = H, Cl, Br, F, I, alkyl, alkoxy, aryloxy,

Aryloxy,

thioalkyl, or disubstituted amino, where the substituents may constitute
the atoms necessary to complete a 5- or 6-membered heterocyclic ring; R6
and R8, R8 and R10, R10 and R12, R7 and R9, or R9 and R11 together may
constitute the atoms necessary to complete a 5- or 6-membered carbocyclic
or heterocyclic ring which may be substituted,

IT 202658-86-4

RI: TEM (Technical or engineered material use); USES (Uses)
(sensitizer for photothermog. recording materials)

RN 202658-86-4 CAPLUS

CN Benzothiazolium, 2-[2-[5,5-bis(ethoxycarbonyl)-3-[[5-methoxy-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-2(3H)-benzothiazolylidene]ethylidene]l-cyclohexen-1-yl]ethenyl]-5-methoxy-3-[2-[(methylsulfonyl)amino]-2oxoethyl]-, inner salt, compd. with N,N-diethylethanamine (1:1) (9CI) CM 1 CRN 202658-85-3 CMF C38 H42 N4 012 S4

Eto-OEt

2 CRN 121-44-8

Et-N-Et

CM

REFERENCE COUNT: THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 43 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1997:732398 CAPLUS
MENT NUMBER: 128:68436
IINAL REFERENCE NO.: 128:13255a,13258a
E: Imidazole derivative and silver halide photographic material spectrally sensitized with the compound
NTOR(S): Kita, Noriyasu; Kagawa, Nobuaki
Konica Co., Japan
CE: Jpn. Kokai Tokkyo Koho, 65 pp.
CODEN: JXXXAF
MENT TYPE: Patent ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.: INVENTOR (S) PATENT ASSIGNEE(S): SOURCE:

Patent Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09291220	A	19971111	JP 1996-106936	19960426
<				
JP 3791045	B2	20060628		
PRIORITY APPLN. INFO.:			JP 1996-106936	19960426
<				
GI				

The imidazole derivative is shown as I (R1 = aliphatic; A = group to form merocyanine dye via conjugated chain; V1, V2 = H, substituent; V1 and V2 may form condensed ring) or II (R1, D, V1, V2 = same as above; X = ter

ier ion; ll = number to neutralize intermol. charge). A Ag halide photog. material is spectrally sensitized with I and/or II. Fogging is

material is openminimized.

Ti 200189-09-9 200189-22-6 200189-43-1 200189-60-2

RL: TEM (Technical or engineered material use); USES (Uses) (imidazole derivative and Ag halide photog. material spectrally

(imidazole derivative and Ag halide photog. material spectrally sensitized with the compound)
RN 200189-09-9 CAPLUS
CN Benzothiazolium, 2-[3-[1-ethenyl-1,3-dihydro-5-(4-morpholinylsulfonyl)-3-(4-sulfobutyl)-2H-benzimidazol-2-ylidene]-1-propen-1-yl]-3-[2-[[methylsulfonyl)amino]-2-oxoethyl]-5-(trifluoromethyl)-, inner salt (CA INDEX NAME)

L7 ANSWER 43 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (CH<sub>2</sub>)<sub>4</sub>-200189-22-6 CAPLUS Benzoxazolium, 2-[5-[5-ch] o-3-ethenyl-1,3-dihydro-1-[2-[(methylsulfonyl)amino]-2-oxo ylidene]-1,3-pentadien-1 INDEX NAME) nyl]-6-(trifluoromethyl)-2H-benzimidazol-2-l]-5-phenyl-3-(3-sulfopropyl)-, inner salt (CA (CH2) 3 - SO3нэс-сн 200189-43-1 CAPI Benzothiazolium, 2-[3-[3-[3-[5-chloro-6-cyano-1-ethenyl-1,3-dihydro-3-[2-[(methylsulfonyl)ami: ; o]-2-oxoethyl]-2H-benzimidazol-2-ylidene]methyl]-5,5dimethyl-2-cyclohe , iodide (1:1 -1-ylidene]-1-propen-1-yl]-3-ethyl-6-methoxy-5-methyl-(CA INDEX NAME) Me

ethenyl-1,3-dihydro-5,6-dimethoxy-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-2H-benzimidazol-2-ylidene]-2-methoxyethylidene]-4-oxo-2-thiazolidinylidene]methyl]-5-chloro-3-ethenyl-6-(trifluoromethyl)- (CA INDEX NAME)

ANSWER 44 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1997:533628 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 127:220650 127:43005a,43008a

INVENTOR(S):

127:43005a,43008a
Preparation of [(heterocyclyloxy)alkoxy- and
-alkylthio]phenylalkanoates and analogs as peroxisome
proliferator-activated receptor antagonists
Adams, Alan D.; Berger, Joel P.; Berger, Gregory D.;
Fitch, Kenneth J.; Graham, Donald W.; Jones, Anthony
B.; Von Langen, Derek; et al.
Merck and Co., Inc., USA; Adams, Alan D.; Berger,

PATENT ASSIGNEE(S): P.; Berger, Gregory D.; Fitch, Kenneth J.; Graham, Donald W.
PCT Int. Appl., 219 pp. CODEN: PIXXD2
Patent English 7

SOURCE:

DOCUMENT TYPE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

TITLE:

	ENT				KIN		DATE				LICA					ATE	
WO	9728						1997	0807								9970	131
-		IL,	IS, NZ,	JP, PL,	KG, RO,	KR,	KZ, SG,	LC, SI,	LK, SK,	LR TJ	, CA,	LV, TR,	MD, TT,	MG, UA,	MK, US,	MN, UZ,	MX, VN
	RW:	IE,	IT,	LU,		NL,	PT,				, DE,						
CA	2244							0807		CA	1997-	2244	836		1	9970	131
	2244 9718				C A		2007 1997	0501 0822		AU	1997-	1856	3		1	9970	131
AU	7080 8820						1999 1998			EP	1997-	9042	10		1	9970	131
	8820 R:								GB,	GR	, IT,	LI,	LU,	NL,	SE,	PT,	IE,
US	6090	836			Α		2000	0718		US	1997-	7912	11		1	9970	131
	2002	5032	03		T		2002	0129		JP	1997-	5278	99		1	9970	131
	2361	37			T		2003	0415		ΑT	1997-	9042	10		1	9970	131
	2194	179			Т3		2003	1116		ES	1997-	9042	10		1	9970	131
	APP	LN.	INFO	. :						US	1996-	1108	0P		P 1	9960	202
										GB	1996-	4234			A 1	9960	228
										US	1996-	3443	4P		P 1	9961	223

L7 ANSWER 44 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN WO 1997-US1749 (Continued) W 19970131

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 127:220650

$$\mathbb{R}^{8}$$
 $\mathbb{R}^{5}$ 
 $\mathbb{R}^{4}$ 
 $\mathbb{R}^{4}$ 
 $\mathbb{R}^{7}$ 
 $\mathbb{R}^{7}$ 
 $\mathbb{R}^{7}$ 
 $\mathbb{R}^{7}$ 
 $\mathbb{R}^{7}$ 
 $\mathbb{R}^{7}$ 

Title compds. [I; R1 = H, (un)substituted alk(en)yl, etc.; R2 = RZZ1Z2Z3Z4; R = CO2R3, CONH2, tetrazolyl, etc.; R3 = H, NHR1, alkyl, AB

steps, title compound II. Data for biol. activity of I were given. 194980-41-1P

RI: BAC (Biological activity or effector, except averse); BSU (Biological

(Biological study, unclassified); SPN (Synthetic preparation; THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); URS (Uses) (preparation of [(heterocyclyloxy)alkoxy-and -alkylthio]phenylalkanoates and analogs as peroxisome proliferator activated receptor antagonists) RN 194980-41-1 CAPLUS (CN Benzeneacetamide, 3-chloro-4-[[3-[(3-chhyl-7-propyl-1,2-benzisoxazol-6-yl)oxy]propyl]thio]-N-(methylsulfonyl)- (CA INDEX NAME)

THERE ARE 25 CAPLUS RECORDS THAT CITE THIS RECORD (29 CITINGS) THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

(Continued) L7 ANSWER 44 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ANSWER 45 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1997:526288 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 127:255246 127:49745a,49748a 127:49745a,49748a Silver halide photographic material with high sensitivity Matsumoto, Atsushi; Hioki, Takanori; Nakamura, Tetsuo Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 64 pp. CODEN: JKKXAF TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KTND DATE APPLICATION NO. DATE A JP 09203993 19970805 JP 1996-12755 19960129 US 6057089 20000502 US 1997-784919 19970116 PRIORITY APPLN. INFO.: JP 1996-12755 19960129

 $\varsigma_{--}$  ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT GI

AB The title material comprises a support coated with  $\geq 1$  Ag halide emulsion layer containing reduction-sensitized Ag halide grains and

contains

≥1 sensitizing dye I [R = QarCONSOZRA, QbsSOZNCORb, QctCONCORc,
QduSOZNSOZRA (Ra-d = alkyl, aryl, heterocycle, alkoxy, aryloxy, amino;
Qa-d = methylene group; r, s, t, u = 1-10); L1, L2 = methine group; p =

1; Z1 = atoms required to form 5 or 6-membered N-containing

1; 21 = atoms required to form 5 or 6-membered N-containing heterocycles; M1 = counter ion; m1 = 0-10; Q = methine or polymethine group substituted for heterocyclic or aromatic groups]. The material shows high sensitivity,

fog, and improved storage stability. Thus, a photog. film was prepared

ANSWER 45 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) using a Ag(Br,I) emulsion redn.-sensitized with thiourea dioxide and contg. II. 148350-04-3148350-04-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of cyanine dye photog. sensitizer)
148350-04-3 CAPLUS
Benzothiazolium, 5-chloro-2-methyl-3-[2-[(methylsulfonyl)amino]-2excethyl]-, bromide (1:1) (CA INDEX NAME) ● Br

ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN APLUS COPYRIGHT 2010 ACS on STN
1997:496774 CAPLUS
127:115221
127:22101a, 22104a
A novel class of non-sensitizing infra-red dyes for use in photosensitive elements
Kiekens, Eric
Agfa-Gevaert Namloze Vennootschap, Belg.
Eur. Pat. Appl., 24 pp.
CODEN: EPXXDW ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.: INVENTOR(S). PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	EP 779540	A1	19970618	EP 1996-203355	19961128
<					
	R: BE, DE, FR,	GB			
	US 5741632	A	19980421	US 1996-762442	19961209
<					
	JP 09179236	A	19970711	JP 1996-351785	19961212
<					
	US 5936086	A	19990810	US 1998-20690	19980210
<					
PRIO	RITY APPLN. INFO.:			EP 1995-203492 A	19951214
<					
				US 1996-762442 A	3 19961209
<					

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARRAT 127:115221
AB A novel class of non-sensitizing infra-red dyes derived from heptamethine dyes with indolenine nuclei is disclosed. They are useful as filter, acutance, or antihalation dyes for photog. elements based on silver

de or for photothermog. elements. 192220-83-0 192220-84-1 192220-87-4 192220-98-6 192220-92-1 192220-94-3 192220-96-5 192220-97-6 192220-86-3 192220-91-0 192220-95-4 192220-98-7 192220-99-8

192220-99-8

RL: TEM (Technical or engineered material use); USES (Uses)
(non-sensitizing IR dye for photog. and photothermog. materials)

RN 192220-83-0 CAPLUS
3H-Indolium,
2-[7-[1,3-dihydro-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-2H-indol-2-ylidene]-1,3,5-heptatrien-1-yl]-3,3-dimethyl-1-[2 ((methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

\_\_ CH\_\_CH\_\_CH\_\_CH\_\_CH\_\_CH\_\_CH\_\_ — Me 192220-84-1 CAPLUS
3H-Indolium, 2-[2-[2-chloro-3-[2-11,3-dihydro-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-2H-indol-2-ylidene]ethylidene]-1-cylohexen-1-yljethenyl]-3,3-3methyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA NDEX NAME) Me-86-3 CAPLUS RN CN 19222 22gvo-3 CAPLUS
Tatiolium, 2-[2-[3-[2-[1,3-dihydro-3,3-dimethyl-1-[2-gthylsulfonyl)amino]-2-oxoethyl]-2H-indol-2-ylidene]ethylidene]-5,5-(ethoxycarbonyl)-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-[2-ethylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

192220-87-4 CAPLUS
1H-Indole-1-acetamide, 2,2'-[[2-(hexahydro-1,3-dimethyl-2,4,6-trioxo-5-pyrimidinyl)-1,3-cyclopentanediylidene]di-2,1-ethanediylidene]bis[2,3-dihydro-3,3-dimethyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)

(Continued)

L7 ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

192220-89-6 CAPLUS
3H-Indolium, 2-[2-[5-[2-[1,3-dihydro-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-2H-indol-2-ylidene]ethylic

192220-91-0 CAPLUS

1H-Benz[e]indolium, 2-[7-[1,3-dihydro-1,1-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-2H-benz[e]indol-2-ylidene]-1,3,5-heptatrien-1-yl]-1,1-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

L7 ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

192220-92-1 CAPLUS 1H-Benz[e]indolium, 2-[2-[2-chloro-3-[2-[1,3-dihydro-1,1-dimethyl-3-[2-

[(methylsulfonyl)amino]-2-oxoethyl]-2H-benz[e]indo1-2-ylidene]ethylidene]1-cyclohexen-1-yl]ethenyl]-1,1-dimethyl-3-[2-[(methylsulfonyl)amino]-2oxoethyl]-, inner salt (CA INDEX NAME)

192220-94-3 CAPLUS
3H-Benz[e]indole-3-acetamide, 2,2'-[[2-(hexah)vec-1,3-dimethyl-2,4,6-trioxo-5-pyrimidinyl)-1,3-dyclopentanediylidene]dh2,1-ethanediylidene]bis[1,2-dihydro-1,1-dimethyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)

ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

192220-95-4 CAPLUS
1H-Benz[e]indolium, 2-[2-[3-[2-[1,3-dihydro-1,1-dimethyl-3-[2-

[(methylsulfonyl)amino]-2-oxoethyl]-2H-benz[e]indol-2-ylidene]ethylidene]-5,5-bis(ethoxycarbonyl)-1-cyclohexen-1-yl]ethenyl]-1,1-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

192220-96-5 CAPLUS
1H-Benz[e]indolium, 2-[2-[4-[2-[1,3-dihydro-1,1-dimethyl-3-[2-

[(methylsulfonyl)amino]-2-oxoethyl]-2H-benz[e]indol-2-ylidene]ethylidene]-6,6-dimethylbicyclo[3.1.1]hept-2-en-2-yl]ethenyl]-1,1-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

L7 ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

192220-97-6 CAPLUS
3H-Indolium, 2-[2-[4-[2-[1,3-dihydro-3,3-dimethyl-1-[2[(methylsulfonyl)amino]-2-oxoethyl]-2H-indol-2-ylidene]ethylidene]-6,6dimethylbicyclo[3.1.1]hept-2-en-2-yl]ethenyl]-3,3-dimethyl-1-[2[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

192220-98-7 CAPLUS
1H-Benz[e]indolium, 2-[2-[5-[2-[1,3-dihydro-1,1-dimethyl-3-[2-

[(methylsulfonyl)amino]-2-oxoethyl]-2H-benz[e]indol-2-ylidene]ethylidene]-5,6-dihydro-2H-thiopyran-3-yl]ethenyl]-1,1-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

L7 ANSWER 47 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 192220-99-8 CAPLUS
3H-Indolium, 2-[2-[5-[2-[1,3]dihydro-3,3-dimethyl-1-[2[(methylsulfonyl)amino]-2-oxoothyl]-2H-indol-2-ylidene]ethylidene]-5,6dihydro-2H-thiopyran-3-yl]ethevyl]-3,3-dimethyl-1-[2[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME) Me-= CH- CH= OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS (2 CITINGS)

ORIGINAL REFERENCE NO.: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:				1997:476314 CAPLUS 127:135799 127:26201a Preparation of benzimidazole derivatives as drugs Yamasaki, Noritsugu; Imoto, Takafumi; Murai, Yoshiyuki; Hiramura, Takahiro; Oku, Teruo; Sawada, Kouzou															
				PCT	Fujisawa Pharmaceutical Co., Ltd., Japan PCT Int. Appl., 380 pp. CODEN: PIXXD2														
LANG FAMI	UAGI	TYP E: ACC. INFOR	NUM.		NT:	Pate Jape 2		se											
		CENT :						DATE						ION				ATE	
		9724				A1		1997										 9961	
<		W:				CN,		IL,	JP,	KR,	M	к,	NZ,	RU,	SG,	TR,	US,	AM,	AZ,
SE			AT,			DE,	DK,	ES,											
<	CA	2241	186			A1		1997	0628		CA	19	96-	2241	186		1	9961	227
•		2241 9712				C A		2006 1997			AU	19	97-	1209	5		1	9961	227
<		7225 8827				B2 A1		2000 1998			EP	19	96-	9433	31		1	9961	227
	EP	8827 R:			CH,			2005 ES,			G]	R,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
<	CN	1211	238			Α		1999	0317		CN	19	96-	1801	37		1	9961	227
<		9900				A2		1999			HU	19	99-	625			1	9961	227
<		9900 9612				A3 A		2003 1999			BR	19	96-	1243	4		1	9961	227
<	JP	2000	1597	49		A		2000	0613		JP	20	000-	8395			1	9961	227
<	JP	3063	162			В2		2000	0712		JP	19	97-	5242	01		1	9961	227
<	NZ	3248	34			A		2001	1130		NZ	19	96-	3248	34		1	9961	227
<		1249				A		2002						1249				9961	
<		3033				Т		2005						9433				9961	
_	ES	2244	979			Т3		2005	1216		ES	19	96-	9433	31		1	9961	227

L7	ANSWER 47 OF 109 TW 548272	CAPLUS B	COPYRIGHT 20030821	2010 ACS on STN TW 1997-86100149	(Continued) 19970108	
<	ZA 9708998	A	19980420	ZA 1997-8998	19971008	
<	US 6166219	A	20001226	US 1998-91997	19981102	
<	US 6352985	B1	20020305	US 2000-492955	20000128	
PRIO	RITY APPLN. INFO.:			JP 1995-343425	A 19951228	
<				JP 1996-287676	A 19961008	
<				JP 1997-524201	A 19961227	
<				WO 1996-JP3858	W 19961227	
				US 1998-91997	A1 19981102	

C-- US 1998-91997 A
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARFAT 127:135799
GI

$$\begin{array}{c|c} R^3 & & N \\ Rm & & N \\ & & N \\ & & R1 \end{array}$$

AB The title compds. [I; R1 = H, arylsulfonyl, (un)substituted lower alkyl, etc.; R2 = H, lower cycloalkyl, alkylthio, or alkoxy, OH, SH, NH2, aryl, etc.; R3 = CO2H, NH2, CONH, etc.; R = substituting group or H; m = 1-3] are prepared I, possessing hypoglycemic or PDE5 inhibitory effects, are useful as remedies for impaired glucose tolerance, diabetes, complications of diabetes, insulin resistant syndrome, hyperlipidemia, atherosclerosis, cardiovascular diseases, hyperglycemia, hypertension, angina pectoris, pulmonary hypertension, congestive heart failure, glomerular diseases, tubular interstitial diseases, renal failure, angiostenosis, peripheral vascular disease, apoplexy, chronic reversible obstructive diseases, allergic rhinitis, urticaria, glaucoma, diseases characterized by

19970708 ZA 1996-10918

= OH) was reacted with C6H5SO2NH2 in the presence of N,N'-carbonyldimidazole and diazabicycloundecene in DMF at 100° for 70 h to give the title compd. II (X = PhSO2NH), which showed 72%  $^{\circ}$ 

ZA 9610918

blood

Sugar lowering activity when tested with mouse.

IT 193010-87-6F
RI: BAC (Biological activity or effector, except adverse); BSU (Biological study), unclassified); SFN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREF (Preparation); USES (Uses)
(preparation of benzimidazole derivs. as drugs)

RN 193010-87-6 CAPLUS

TH-Benzimidazole-6-acetamide, preparation; (2-chlorophenyl)methyl]-2-methyl-N-(phenylsulfonyl)- (CA INDEXWNAME)

S.CITING REF COUNT: REFERENCE COUNT:

FORMAT

44

THERE ARE 44 CAPLUS RECORDS THAT CITE THIS RECORD (67 CITINOS)
THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

19961230

ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1997:317788 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 126:293368 126:56816h.56817a 126:56816N,56817a
Benzoxazepine compounds, their production and use as lipid lowering agents
Yukimasa, Hidefumi; Sugiyama, Yasuo; Tozawa, Ryuichi Takeda Chemical Industries, Ltd., Japan
PCT Int. Appl., 112 pp.
CODEN: FIXXD2 TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE WO 9710224 A1 19970320 WO 1996-JP2596 19960912 AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, KR, KE, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, NN SD, SZ, UG, AT, BE, CR, DE, DK, EE, FI, FR, GB, GR, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, TD, TG
A1 19970320 CA 1996-2231052 19960912 CA 2231052 AU 9669442 20071113 19970401 AU 1996-69442 19960912 JP 09136880 Α 19970527 JP 1996-242378 19960912 20031215 EP 1996-930365 19960912 EP 862562 A1 19980909 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI CN 1196052 Α 19981014 CN 1996-196892 19960912 CN 1072649 20011010 A1 EP 2000-126672 19960912 EP 1097928 20010509 E: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
AT 202774 T 20010715 BT 1996 230365 EP 1097928 ES 2158344 Т3 20010901 ES 1996-930365 19960912 PT 862562 20011130 PT 1996-930365 19960912 AT 401315 20080815 AT 2000-126672 19960912 ZA 9702134 19990604 ZA 1997-2134 19970312

L7	ANSWER 48 OF 109 US 6110909	CAPLUS A	COPYRIGHT 20000829	2010 ACS on STN US 1998-43265	(Continued) 19980312
<	US 6613761	В1	20030902	US 2000-587947	20000606
<	JP 2001097963	A	20010410	JP 2000-323310	20001018
<					
	JP 4021612	B2	20071212		
	GR 3036707	Т3	20011231	GR 2001-401564	20010926
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	US 20040072819	A1	20040415	US 2003-606152	20030624
<					
	US 20070117787	A1	20070524	US 2006-638066	20061212
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	JP 2007332154	A	20071227	JP 2007-210503	20070810
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	US 20080153801	A1	20080626	US 2007-986280	20071119
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				EP 1996-930365	A3 19960912
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				JP 1996-242378	A3 19960912
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				WO 1996-JP2596	W 19960912
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				ZA 1997-2134	A 19970312
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				US 1998-43265	A3 19980312
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				US 2000-587947	A1 20000606
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				JP 2000-323310	A3 20001018
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				US 2006-638066	B1 20061212

ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

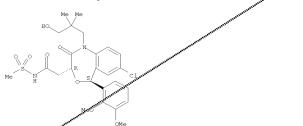
New benzoxazepines I [R = alkyl, hydroxyalkyl; R1 = alkyl; R2 = halogen; R3 = (un)substituted CONH2, heterocyclic group having a deprotonatable hydrogen atom]were prepared for use as cholesterol and triglyceride

nyartogen attum/west prepared to the as conference and transformation in the property of the p

(Biological ogical study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of arylbenzoxazepinones as hypolipemic agents)

[Perparation or arylbenzoxazepinones as hypolipemic agents)
189059-84-5 CAPLUS
4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,
tetrahydro-1-(3-hydroxy-2,2-dimethylpropyl)-N-(methylsulfonyl)-2-0x0x
(3R,58)- (CA INDEX NAME)

Absolute stereochemistry.

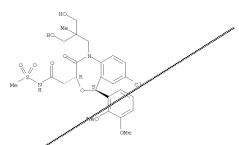


189059-85-6 CAPLUS 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-1-[3-hydroxy-2-(hydroxymethyl)-2-methylpropyl]-N-

ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (methylsulfonyl)-2-oxo-, (3R,5S)- (CA INDEX NAME) (Continued)

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 126:293368

Absolute stereochemistry.



89059-79-8P 189059-81-2P IT 189059-80-1P

ore RL: BAC (Biological activity or effector, except adverse); BSU (Biological

Absolute stereochemistry.

189059-80-1 CAPLUS 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1-(2,2-dimethylpropyl)-1,2,3,5-tetrahydro-2-oxo-N-(phenylsulfonyl)-, (3R,5S)-(CA INDEX NAME)

L7 ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.

189059-81-2 CAPLUS 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxypheny) dimethylpropyl)-1,2,3,5-tetrahydro-N-[(1-methylethyl)sulforgyl]-(3R,5S)- (CA INDEX NAME)

 $\begin{array}{lll} 189059-82-3 & \text{CAPLUS} \\ 4,1-\text{Benzoxazepine-3-acetamide,} & 7-\text{chloro-5-(2,3-dimethoxyphenyl)-1-(2,2-dimethylpropyl)-N-(ethylsulfonyl)-1,2,3,5-tetrahydro-2-oxo-, & (3R,5S)-1, & (3R,5S)-1,$ 

INDEX NAME)

Absolute stereochemistry.

(Continued) L7 ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS.

189059-76-5P 189059-78-7P 189060-07-9P
189060-45-5P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylbenzoxazepinones as hypolipemic agents)
189059-76-5 CAPLUS
4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1-(2,2-dimethylpropyl)-1,2,3,5-tetrahydro-N-[(4-methylphenyl)sulfonyl]-2-oxo-,
(3R,5S)- (CA INDEX NAME)

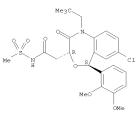
Absolute stereochemistry.

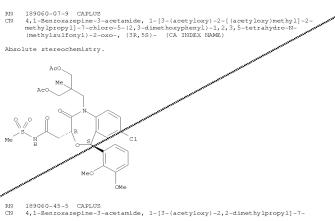
189059-78-7 CAPLUS

163039-76-7 (ArDOS 4/1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1-(2,2-dimethylpropyl)-1,2,3,5-tetrahydro-N-(methylsulfonyl)-2-oxo-, (3R,53)-(CA INDEX NAME)

Absolute stereochemistry.

ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

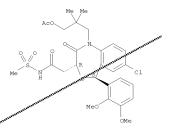




chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-N-(methylsulfonyl)-2-oxo, (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



OS.CITING REF COUNT:

THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (60 CITINGS) THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

13 REFERENCE COUNT:

FORMAT

ANSWER 49 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1997:315042 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 126:293352 126:56809a.56812a 126:56809a,56812a
Preparation of benzimidazoles for the prevention and/or the treatment of bone diseases
Oku, Teruo; Kawai, Yoshio; Natabe, Takumi; Sato, Shigeki; Yamazaki, Hitoshi; Kayakiri, Natsuko; Yoshihara, Kousei
Fujisawa Pharmaceutical Co., Ltd., Japan
PCT Int. Appl., 146 pp.
CODEN: PIXXD2 TITLE: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English PATENT NO. KIND DATE APPLICATION NO. DATE WO 9710219 A1 19970320 WO 1996-JP2530 19960905 W: JP, US RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, A1 19980916 EP 1996-929540 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, 19960905

JP 11513364 19991116 JP 1996-511824 PRIORITY APPLN. INFO.: GB 1995-18552 A 19950911 WO 1996-JP2530 W 19960905 OTHER SOURCE(S): MARPAT 126:293352

The title compds. [I; Rl = acyl, (un)substituted lower alkenyl, lower alkyl; R2 = H, lower alkyl, lower alkoxy, etc.; RIR2 = lower alkylene, lower alkenylene (may include O, S, NB, N-alkyl); R3 = H, halo; R4 = (un)substituted heterocyclyl, aryl; A = CONR9, N(R10)CO (wherein R9, R10) AB

ANSWER 49 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) H, (un)substituted lower alkyll), and their pharmaceutically acceptable salts, inhibitors of bone resorption and bone metab., were prepd. Thus, hydrogenation of 1,2-dimethyl-4-mitro-1H-benzimidazole over 10% Pd/C in MeOH followed by reaction of the resulting 4-amino-1,2-dimethyl-1H-benzimidazole with 2,6-dichlorobenzoyl chloride

the presence of Et3N in ethylene chloride afforded I [R1, R2 = Me; R3 =

R4 = 2,6-C12C6H3; A = NHCO]. Compds. I are effective at 0.1-1000 mg/body/day. 189043-28-5P

OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

ANSWER 50 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN NPLUS COPYRIGHT 2010 ACS on STN
1997:90192 CAPLUS
126:124704
126:23975a, 23978a
Silver halide photographic material containing
hydrazine derivative and method of developing
Tanabe, Junichi; Ito, Hirohide
Konishiroku Photo Ind, Japan
Jpn. Kokai Tokkyo Koho, 51 pp.
CODEN: JKXXAF ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: INVENTOR (S) PATENT ASSIGNEE(S): SOURCE:

Patent Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08272030	A	19961018	JP 1995-78835	19950404
<				
JP 3416830	B2	20030616		
PRIORITY APPLN. INFO.:			JP 1995-78835	19950404
<				
GI				

(X1<sup>-</sup>)<sub>n</sub> I

In a  ${\tt Ag}$  halide photog, material having  ${\tt \ge 1}$  layer containing a hydrazine derivative on an emulsion layer side of a support, (1) the  ${\tt Ag}$  halide AB

compound R1CH(OH)C(:O)(X)kR2 (R1,2 = alkyl, amino, alkoxy, alkylthio; R1

and

r2 may form a ring; k = 0,1; when k = 1, X represents CO or CS) but is free of dihydroxybenzene compds. The Ag halide photog, material is suitable for a film for printing, and provided super-high contrast image.

IT 161911-20-2 161911-21-2

RL: TEM (Technical or engineered material use); USES (Uses) (silver halide photog, material containing hydrazine derivative and method of developing)

RN 161911-20-2 CAPLUS

CN 1H-Benzimidazolium,
5,6-dichloro-2-[3-[5,6-dichloro-1,3-dihydro-1,3-bis[2-

[(methylsulfonyl)amino]-2-oxoethyl]-2H-benzimidazol-2-ylidene]-1-propen-1-yl]-1-methyl-3-(3-sulfopropyl)-, inner salt (CA INDEX NAME)

ANSWER 50 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) -03S- (CH2)3 CAPLUS nidazolium, -2[3-[5,6-dichloro-1,3-dihydro-1-methyl-3-CN 1H-Benzi 5,6-dichloro-(methylsulfont1) amino] -2-oxoethyl] -2H-benzimidazol-2-ylidene]-1-propen1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-1-(3-sulfopropyl)-, inner
salt (CA INDE NAME) [2-[(methylsulfo NH:

-03S- (CH2)3 O - NH-

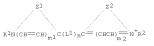
ANSWER 51 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1996:666522 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 125:288709 125:53763a.53766a 125:53763a,53766a
Silver halide photographic material spectrally sensitized by trinuclear cyanine having improvements of the sensitivity and low dye stain Kagawa, Nobuaki; Kita, Noryasu Konishiroku Photo Ind., Japan Jpn. Kokai Tokkyo Koho, 30 pp.

COBERT JKXXAF
Patent TITLE: INVENTOR (S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Japanese PATENT NO. KIND DATE APPLICATION NO. DATE JP 08201954 19960809 JP 1995-11332 19950127 19950127 PRIORITY APPLN. INFO.: JP 1995-11332 For diagram(s), see printed CA Issue. The claimed photog. material is characterized by (1) that  $\geq 1$  of the emulsion layer is spectrally sensitized by a cyanine dye I (21, 22 = 5-6-membered heterocyclic ring; Z3 = NR, O, S, Se, Te; R, R2 = aliphatic, heterocyclic group; R1, R3 = C 1-10 aliphatic; at least one of R and R1-3 has a water-solubilizing group; L1 = substituted methine; L2, L3 = methyne; and n = counter ion for stoichiometric balance; 1, k, m = 0, 1). A sensitizing dye II (Y11-13 = NR10, 0, S, Se, Te, R10-13, L11-13 have the same meaning as R, R1-3, L1-3 in I; Y1-4 = H, alkyl, aryl, alkoxy; 21 R10-13 has a water-solubilizing group; M1 and n = counter ion for stoichiometric balance; m = 0, 1). The spectral sensitizer provides high sensitivity at red spectral region, and also provides the material with good shelf life and low residual dye stain at the processing.

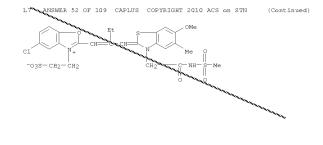
RL: DRV (Device compared. М1 RL: DEV (Device component use); USES (Uses)
(Ag halide photog. material spectrally sensitized by trinuclear having improved red sensitivity and low dye stain) 182946-33-4 CAPLUS Benzothiazolium, 2-[[3-(carboxymethyl)-5-[2-[5-methoxy-3-(3-sulfopropyl)-1,3-benzotellurazol-2(3H)-ylidene]propylidene]-4-oxo-2-thiazolidinylidene]methyl]-5-chloro-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME) having improved red sensitivity and low dye stain)

L7 ANSWER 52 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1996:530842 CAPLUS
DOCUMENT NUMBER: 125:191129
CRIGINAL REFERENCE NO: 125:33681a, 33684a
SINVENTOR(S): SINVENTOR (S): OCTAIN, Hiroshi
PATENT ASSIGNEE(S): Komishiroku Photo Ind, Japan
JDN Kokai Tokkyo Koho, 31 pp.
CODEN: JKXXAF
DOCUMENT TYPE: PATENT INFORMATION: 1
PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08146548		19960607	.TP 1994-286502	19941121
< PRIORITY APPLN. INFO.:			JP 1994-286502	19941121
<				



AB The title materials have a photosensitive Ag halide emulsion layer, in which Ag halide particles (e.g., planar particles with aspect ratio \$\geq 3\$ and \$\geq 270\$ projection area) are chemical sensitized by a Te compound or a Te compound and a Se compound and spectrally sensitized by the dye I (21-2 = nonmetal atomic group for 5- or 6-membered N-containing heterocycle; L1 = methine; R1 = JSO2NH2, JCONHCOR3, JCONHSO2R3, JSCOR3, JSCO



ANSWER 53 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1996:524078 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

1996:5240/8 (APLUS 125:168038 125:31497a,31500a Preparation of naphthylbenzoxazepines or -benzothiazepines as squalene synthetase inhibitors Hamanaka, Ernest S.; Hawkins, Joel M.; Hayward, TITLE: INVENTOR(S):

M.
Pfizer Inc., USA
PCT Int. Appl., 118 pp.
CODEN: PIXXD2
Patent
English
1 PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

OTHER SOURCE(S):

PAIL	INI INFORMATION:				
	PATENT NO.	KIND	DATE	APPLICATION NO.	
			19960704	WO 1995-IB424	
<	W: CA, FI, JP RW: AT, BE, CH CA 2207772	DE, DE	K, ES, FR, G	B, GR, IE, IT, LU, MC CA 1995-2207772	
<	JP 10500702	T	19980120	JP 1995-520314	19950602
<	IN 1995DE02260	A	20050311	IN 1995-DE2260	19951207
<	LV 11325	В	19970220	LV 1995-379	19951221
<	BR 9505995	A	19971223	BR 1995-5995	19951221
<	NO 9505288	A	19960624	NO 1995-5288	19951222
<	AU 9540677	A	19960704	AU 1995-40677	19951222
<	CN 1133287	A	19961016	CN 1995-120143	19951222
	HU 74672	A2	19970128	ни 1995-3783	19951222
	US 5770594	A	19980623	US 1997-860155	19970617
1	FI 9702696	A	19970623	FI 1997-2696	19970623
	RITY APPLN. INFO.:			US 1994-362713	A 19941223
<				WO 1995-IB424	W 19950602
< < < PRIO	HU 74672 US 5770594 FI 9702696	A2 A	19970128 19980623	HU 1995-3783 US 1997-860155 FI 1997-2696 US 1994-362713	19951222 19970617 19970623 A 19941223

(Continued)

ANSWER 53 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 125:168038

Me3C 180346-10-5 CAPLUS 4,1-Benzoxazepine-3-acetamide, 7-chlo tetrahydro-N-(methylsulfonyl)-5-(1-ma) ov6-1-(2,2-dimethylpropyl)-1,2,3,5-iphthalenyl)-2-oxo-, trans- (9CI) INDEX NAME) Relative stereochemistry. THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS) THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REF COUNT: 15 NCE COUNT:

L7 ANSWER 53 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

AB Title compds. [I; R = CO2H, alkoxycarbonyl, CONH2, etc.;R1,R2 = H, halo, alkyl,alkoxy, etc.; R3 = (un)substituted naphthyl; R4 = alkyl, cycloalkylmethyl, etc.; Z1 = O, SO0-2; Z2 = CO or CH2] were prepared as squalene synthetase inhibitors (no data). Thus, 4-ClC6H4NHCH2CMe3 (preparation given) was hydroxyalkylated by 1-naphthaldehyde and the product N-acylated by (E)-ClCOCH:CHCO2Me to give, after cyclization, title compds. II. II 180346-09-2P 180346-10-5P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study); PREP (Preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of naphthylbenzoxazepines or -benzothiazepines as squalene synthetase inhibitors)

alene
synthetase inhibitors)
180346-09-2 CAPLUS
4,1-Benzothiazepine-3-acetamide, 7-chloro-1-(2,2-dimethylpropyl)-1,2,3,5tetrahydro-N-(methylsulfonyl)-5-(1-naphthalenyl)-2-oxo-, trans- (9CI)

(CA INDEX NAME)

Relative stereochemistry.

ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:

ANSWER 54 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ISSION NUMBER: 1996:355185 CAPLUS
INERT NUMBER: 125:33473
INNAL REFERENCE NO.: 125:6533a,6536a

E: Preparation of heterocyclic compounds useful as allosteric effectors at muscarinic receptors
INTOR (S): Birdsall, Nigel, Lazareno, Sebastian; Naruto, Syunji;
Koyama, Kazuo; Sugimoto, Masahiko; Marumoto, Shinji
SINT ASSIGNEE(S): Sankyo Co., Ltd., Japan
ACE: COUNT. 14 DEPLAY ACC. NUM. COUNT: English
LLY ACC. NUM. COUNT: 1 INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

		FENT																DATE	
																		19950	
<																			
								HU,									MI	, PT,	9
	CA	2196																19950	
<																			
	AU	9530	866			A		1996	0222		AU	199	95-3	3086	6			19950	172
<	TT &	6864	26			12.2		1998	0205										
											EP	199	95-9	9265	09			19950	72
<																			
TE.		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GF	₹, :	IT,	LI,	LU,	NL,	SE	, MC,	P
TP	CN	1166	169			А		1997	1126		CN	199	9.5-	1952	62			19950	172
<																			_
	HU	7692	3			A2		1998	0128		HU	199	97-2	248				19950	72
<	.TD	1050	3/188			т		1998	0331		.TD	190	95_9	50.56	5.5			19950	72
<	OI	1000	3400			1		1000	0001		OL	1).	, , , ,	0000	55			10000	,,,
	RU	2152	385			C1		2000	0710		RU	199	97-:	1026	95			19950	72
<	110	9700	200			А		1997	0705		NTO.	100		200				19970	
<	NO	9700	300			А		1337	0323		NO	193	9 /	000				19970	12
	FI	9700	328			A		1997	0327		FI	199	97-3	328				19970	12
<																			
<	US	5877	199			A		1999	0302		US	199	97-	7914	99			19970	112
	RIT	Y APP	LN.	INFO	. :						GB	199	94-:	1517	5		Α	19940	172
<																			
											GB	199	94-2	2394	8		A	19941	.12
<																		19950	

NSWER 54 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN L7 (Continued) ompds. [I; 1 of R1,R2 = H, alkyl, alkanoyl, aryl, etc. and the H, alkyl, aryl(alkyl); R3 = H, amino-protective group; 1 of Y1-Y4 (SONH2, carboxyalkyl(oxy), etc. and the others = H, halo, alkyl, etc.; W = CH2, CH, SON-2; Z = CH2,CH, NH, N; dashed line = N, bond] were prepared Data for effect of prepared I on AR Title AB Title compds. [I; 1 of R1,R2 = H, alkyl, alkanoyl, aryl, etc. a other H, alkyl, aryl(alkyl); R3 = H, amino-protective group; = CO2H, SO2NH2, carboxyalkyl(oxy), etc. and the others = H, hal alkoxy, etc.; W = CH2, CH, SO0-2; Z = CH2,CH, NH, N; dashed lin optional bond] were prepared Data for effect of prepared I on acetylcholine binding were given.

IT 177550-07-NP R1: BAC (Blological activity or effector, except adverse); BSU (Blological study, unclassified); SPN (Synthetic preparation); THU (Therape СН2 S-Me NH-THERE ARE 8 CAPLUS RECORDS THAT CITE THIS OS.CITING REF COUNT: (12 CITINGS) (12 CITINGS)
THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT: FORMAT

ANSWER 55 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1996:155517 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 124:202010 124:202010
124:37341a,37344a
Preparation of N-sulfonylpyrrolizineacetamides and analogs as cyclooxygenase and lipoxygenase inhibitors Laufer, Stefany Striegel, Hans Guenther; Dammhardt, TITLE: INVENTOR(S): Gerd
Merckle GmbH, Germany
Ger. Offen., 22 pp.
CODEN: GWXXBX
Patent PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE DE 4419247 A1 19951207 DE 1994-4419247 19940601 CA 2191746 19951207 CA 1995-2191746 19950531 CA 2191746 WO 9532972 20070410 19951207 C A1 WO 1995-EP2079 19950531 BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, FL, RO, RU, TJ, TT, UA, US, UZ, VN SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, W: AM, AU, BB, KP, KR, KZ, SG, SI, SK, RW: KE, MW, SD, LU, NL, SN, TD, TG AU 9526730 Α 19951221 AU 1995-26730 19950531 EP 763037 A1 19970319 EP 1995-921801 19950531 EP 763037 20011114 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE JP 10506370 Т 19980623 JP 1996-500334 19950531 JP 3671303 AT 208777 20050713 В2 AT 1995-921801 20011115 19950531 ES 2166823 20020501 ES 1995-921801 19950531 тз

L7 ANSWER 55 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) PRIORITY APPLN. INFO.: DE 1994-4419247 A 19940601 WO 1995-EP2079 W 19950531

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 124:202010

Title compds. [I; 2 of R1-R3 = H or (hetero)aryl and the other = COCO2H, alkoxycarbonyl, sulfonylcarbamoylalkyl, etc.; R4-R7 = H or alkyl; 2 vicinal R4-R7 = bond; X = CH2, O, S, (alkyl)imino, etc] were prepared

Thus, title compound II had IC50 of 2.3x10-7 and 1.5x10-7 (units not given)

against lipoxygenase and cyclooxygenase, resp. 174347-96-7P 174347-97-8P 174347-98-9P 174348-07-3P 174348-08-4P 174348-09-5P 174348-10-8P 174348-11-9P 174348-12-0P 174348-14-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

plogical
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREF (Preparation); USES (Uses)
 (preparation of N-sulfonylpyrrolizineacetamides and analogs as
 cyclooxygenase and lipoxygenase inhibitors)
174347-96-7 CAPLUS

RN 17434/-y6-/ CAPLOS
CN 1H-Pyrrolizine-5-acetamide,
6-(5-chloro-2-thienyl)-2,2-diethyl-2,3-dihydroN-(methylsulfonyl)-7-phenyl- (CA INDEX NAME)

RN 174347-97-8 CAPLUS
CN 1H-Pyrrolizine-5-acetamide,
6-(5-chloro-2-thieny1)-2,2-diethy1-2,3-dihydro-

ANSWER 55 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN N-[(4-methylphenyl)sulfonyl]-7-phenyl- (CA INDEX NAME) (Continued) N-[(4-methylphenyl)sulfonyl]-7-phenyl-

20020531

19961129

20010514

19970127

20040813 19990824

E

PT 1995-921801

NO 1996-5095

FI 1996-4773

US 1997-737921

19950531

19961129

19961129

19970328

PT 763037

NO 9605095

NO 310076

FI 9604773

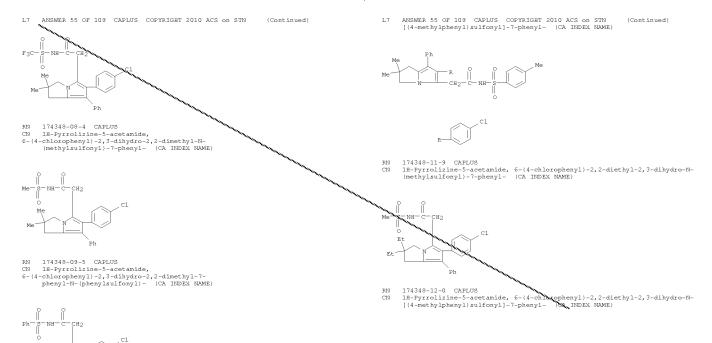
FI 114099 US 5942535

174347-98-9 CAPLUS 1H-Pyrrolizine-5-aced dimethyl-N-(methylsy mide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-fonyl)-7-phenyl- (CA INDEX NAME)

174347 9-0 CAPLUS olizine-5-acetamide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-l-N-[(4-methylphenyl)sulfonyl]-7-phenyl- (CA INDEX NAME) dime

174348-07-3 CAPLUS
1H-Pyrrolizine-5-acetamide,
-chlorophenyl-2,3-dihydro-2,2-dimethyl-7phenyl-N-[(trifluoromethyl)sulfonyl]- (CA INDEX NAME)

Searched by Jason M. Nolan, Ph.D.



RN 174348-10-8 CAPLUS CN 1H-Pyrrolizine-5-acetamide, 6-(4-chloropheny1)-2,3-dihydro-2,2-dimethyl-N-

INVENTOR(S):					124 Prepana: Laui Gero	124:202009 124:37341a,37344a Preparation of heteroarylpyrrolizineacetates and analogs as cyclooxygenase and lipoxygenase inhibitors Laufer, Stefan; Striegel, Hans Guenther; Dannhardt, Gerd												
OUR( OCU! ANG! FAMI!	CE: MENT JAGE LY 1	TYP	E:	COU		Pate Gern	. Of EN: ent		, 25									
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		4419				A1		1995					-4419				9940	
	CA	2191	747			A1		1995	1207		CA	1995	-2191	747		1	9950	531
		2191 9532				C A1		2007 1995			wo	1995	-EP20	77		1	9950	531
			KP, SG, KE,	KR, SI, MW,	KZ, SK, SD,	LK, TJ, SZ,	LR, TT, UG,	LT, UA, AT,	LV, US, BE,	MD, UZ, CH,	MG VN DE	, MN	, FI, , MX,	NO,	NZ,	PL,	RO,	RU,
	AU	9526	SN,	TD,		PT,							, CM, -2672		GN,		мк, 9950	
<	EP	7630	36			A1		1997	0319		EP	1995	-9217	99		1	9950	531
: :E	EP	7630 R:		BE,	CH,			2002 ES,		GB,	GR	, IE	, IT,	LI,	LU,	MC,	NL,	PT,
(	JP	1050	6368			T		1998	0623		JP	1996	-5003	32		1	9950	531
		3671 2239				B2 T		2005 2002			AT	1995	-9217	99		1	9950	531
·	PT	7630	36			E		2002	1231		PT	1995	-9217	99		1	9950	531
-	ES	2182	903			Т3		2003	0316		ES	1995	-9217	99		1	9950	531
	US	5958	943			A		1999	0928		US	1996	- 73 79	19		1	9960	328
:		9605				A		1996			NO	1996	-5093			1	9961	129
<		3102 9604				B1 A		2001 1997			FI	1996	-4771			1	9961	129
		1139 APP		INFO	. :	В1		2004	0715		DE	1994	-4419	246		A 1	9940	601
<											WO.	1995	-EP20	77		w 1	9950	531

L7 ANSWER 56 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (CON ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 124:202009 (Continued)

Title compds. [1 1 of R1-R3 = heteroaryl, 1 of the remaining = H or (hetero)aryl, and the remaining = H, CHO, carboxy(alkyl), alkoxycarbonyl, etc.; R4-R7 = H or alkyl; 2 of vicinal R4-R7 = bond; X = CH2, CO, O, S, etc.] were prepared Thus, title compound II had IC50 of 4x10-7 and

2x10-7

(units not given) against lipoxygenase and cycloxygenase, resp.

IT 174347-96-7P 174347-97-8P 174347-98-9P

174347-99-0P

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heteroarylpyrrolizineacetates and analogs as cyclooxygenase

and li 174347-96

ise Lipoxygenase inhibitors) 6-7 CAPLUS Lizine-5-acetamide, -thienyll-2,2-diethyl-2,3-dihydro-lsulfonyl)-7-phenyl- (CA INDEX NAME) 1H-Pyrro

RN 74347-97-8 CAPLUS THOOF TO CARDOS CARDOS (ARBOS) THE Pyrolizine-5-acetamide, chloro-2-thienyl)-2,2-diethyl-2,3-dihydro-N-[(4-methylphenyl)sulfonyl]-7-phenyl- (CA INDEX NAME)

ANSWER 57 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1996:148174 CAPLUS
HENT NUMBER: 124:574366
124:50511a,50514a
E: Silver halide photographic material containing dye
with lens residual color
NTOR(S): Harada, Tooru; Arai, Naoki
Fuji Photo Film Co Ltd, Japan
CE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
MENT TYPE: Patent ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE: INVENTOR(S).

PATENT ASSIGNEE(S): SOURCE:

Patent Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07333784	A	19951222	JP 1994-122666	19940603
<				
PRIORITY APPLN. INFO.:			JP 1994-122666	19940603

The material has a hydrophilic colloidal layer containing  $\geq 1$  dye I [Z1-2 = nonmetal atoms to form benzo or naphtho condensed ring; L4-5 = C1-4 alkylene, R1-2 = CONHA, SOZNHA; A = COR7, SOZN; R7 = alkyl; R3-6 = alkyl, R3 and R4 or R5 and R6 may form a ring; L1-3 = methine (which may link to form 5- or 6-membered ring); M1-2 = alkali metal salt, ammonium salt, neq. charge; X = anion; n = 1-2, when inner salt is formed, n = 1]. The material shows good storage stability and less residual color after processing. 175220-19-6 175220-22-1 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses) (photog. film containing due in surface protective layer)

(Uses) (U

oxoethyl]-5-sulfo-2H-indol-2-ylidene]-1,3,5-heptatrien-1-yl]-3,3-dimethyll=[2-[(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-, inner salt, potassium
salt (1:1) (CA INDEX NAME)

ANSWER 56 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) Εt Pyrrolizine-5-acetamide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-methyl-N-(methylsulfonyl)-7-phenyl- (CA INDEX NAME)

RN CN 47-99-0 CAPLUS Orroy-Verrolizine-5-acetamide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-othyl-N-[(4-methylphenyl)sulfonyl]-7-phenyl- (CA INDEX NAME)

OS CITING REF COUNT: THERE ARE 5 CAPLUS RECORDS THAT CITE THIS (6 CITINGS)

L7 ANSWER 57 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

PAGE 1-B

 $\label{eq:controlled} 175220-22-1 \quad \text{CAPLUS} \\ 3\text{H-Infollum, 2-l2-[2-[(2-\text{carboxyphenyl)thio}]-3-[2-[1,3-\text{dihydro-3},3-\text{dimethyl-1-[2-[(methylsulfonyl)amino}]-2-oxoethyl]-5-sulfo-2H-indol-2-ylidene]ethyllidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-, liner salt, potassium salt$ (CA INDEX NAME)

(Continued)

ANSWER 58 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1996:34578 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 124:71507 124:13117a,13120a

TITLE:

124:13117a,33120a
Direct positive silver halide color photographic
material and image formation with improved background
whiteness and processing stability
Sasagawa, Masayuki; Ookawachi, Susumu
Konishiroku Photo Ind, Japan
Jpn. Kokai Tokkyo Koho, 36 pp.
CODEN: JKXXAF
Patent

INVENTOR (S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07253631	 A	19951003	JP 1994-45937	19940316
< PRIORITY APPLN. INFO.: <			JP 1994-45937	19940316

In the title photog, material having a photosensitive layer containing preunfogged inner latent image type Ag halide grains and a nonphotosensitive layer,  $\geq 1$  photosensitive emulsion layer contains compound I (21, 22 = non-metallic atoms required to form 5- or 6-membered ring; L1 = methine; R1 = -JZSOZNNEQ, -JZCONNEOCR2, -JZCONNESOZR3, -JZSOZNNEOCR4, JGSOZNHSOZR5 = alkylene; I1, 12 = 0, 1; n = odd integer), and the total swelling degree of the emulsion layer-containing side

comparing to the support ranges from 80-200%.  $172415-58-6\,$ 

172415-58-6
RL: DEV (Device component use); USES (Uses)
 (sensitizing dye contained in direct pos. photog. material)
172415-58-6 CAPLUS
Benzoxazolium, 5-chloro-2-[2-[[6-methoxy-5-methy1-3-[2[(methylsulfonyl)amino]-2-oxoethyl]-2(3H)-benzothiazolylidene]methyl]-1buten-1-yl]-3-(2-sulfoethyl)-, inner salt (CA INDEX NAME)

L7 ANSWER 58 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

10/541,429

ANSWER 59 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE:

APLUS COPYRIGHT 2010 ACS on STN
1995:990998 CAPLUS
124:131426
124:24175a, 24178a
Supersensitizing bisbenzothiazolocyanine dye
combination for red-sensitive silver halide emulsion
Preddy, Carl R.; Boltzclaw, John V.
Eastman Kodak Co., USA
U.S., 7 pp.
CODEN: USXXXAM
Patent INVENTOR (S)

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

DATE US 5464735 19951107 19931207 PRIORITY APPLN. INFO.: US 1993-163969 19931207

<-ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 124:131426</p> OTHER SOURCE(S): GI

There is disclosed a photog. material comprising a layer of a silver halide emulsion containing a sensitizing combination of a first dye represented by the formula I (R1, R2 = halogen; R3 = H, R4, R5 = R8CONHSO2R9 - or -R9CONHSO2R8 where R8 = alkyl; R9 = alkylene; R6, R7 = H, alkyl, or alkoxy; X+ = a monovalent cation) and a second dye represented by the formula I (R1, R2 = H, halogen, alkyl, or alkoxy; R3 = alkyl; R4, R5 = sulfoalkyl, carboxyalkyl, sulfoalkylcarbamiodalkyl, sulfoalkylcarbamiodalkylcarbamiodalkyl, sulfoalkylcarbamio

monovalent cation).

173307-54-5

173307-55-6

173307-56-7

173307-57-8

RI: TEM (Technical or engineered material use); USES (Uses)

(red-sensitive silver halide emulsion supersensitization using bisbenzothiazologyanine dye combinations containing)

173307-54-5

CAPLUS

Benzothiazolium, 5-chloro-2-[2-[[5-chloro-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-2(3H)-benzothiazolylidene]methyl]-1-buten-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]- (CA INDEX NAME)

CAPLUS
ium, 5-chloro-2-[3-[5-chloro-3-[2-[(methylsulfonyl)amino]-23H)-benzothiazolylidene]-1-propen-1-yl]-3-[2anyl)amino]-2-oxoethyl]- (CA INDEX NAME) охоеthyl]-2 [(methylsul

173307-56-7 CAPLUS 1/330/-56-/ CAPLUS
Benzothiazolium, 5-chloro-1-[2-[[5-chloro-3-[2-[(ethylsulfonyl)amino]-2-oxoethyl]-2(3H)-benzothiazolylidene]methyl]-1-buten-1-yl]-3-[2-[(ethylsulfonyl)amino]-2-oxoethyl]- (CA INDEX NAME)

173307-57-8 CAPLUS
Benzothiazolium, 5-chloro-2-[3-[5-chloro]3-[2-[(ethylsulfonyl)amino]-2-oxoethyl]-2(3H)-benzothiazolylidene]-2-methyl-1-propen-1-yl]-3-[2-[(ethylsulfonyl)amino]-2-oxoethyl]- (CA 10DEX NAME)

L7 ANSWER 59 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) - СН= 173307-58-9 CAPLUS Benzothiazolium, 5-chlo oxoethyl]-2(3H)-benzoth [(ethylsulfonyl)amino]-.2-[3-[5-chloro-3-[2-[(ethylsulfonyl)amino]-2-olylidene]-1-propen-1-yl]-3-[2-xoethyl]- (CA INDEX NAME)

CH2 Et THERE ARE 1 CAPLUS RECORDS THAT CITE THIS OS.CITING REF COUNT: (1 CITINGS) (I CITINGS)
THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT: FORMAT

ANSWER 60 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

ANSWER 60 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1995:951720 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 124:101746 124:18749a,18752a 124:18749a,18752a Silver halide photographic material spectrally sensitized by cyanine dye Kita, Noryasu; Kagawa, Nobuaki Konishiroku Photo Ind, Japan Jpn. Kokai Tokkyo Koho, 51 pp. CODEN: JKKXAF TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07209792	A	19950811	JP 1994-2731	19940114
<				
PRIORITY APPLN. INFO.:			JP 1994-2731	19940114
<				

The claimed photog, material has at least one Ag halide emulsion layer spectrally sensitized by a merocyanine dye I (R1 = C1-10 aliphatic group AB

water-solubilizing substituent; A = group forming a merocyanine dye and linked through conjugated bonds with the oxazole moiety) or cyanine dye (R2 = C1-10 aliphatic group with water-solubilizing substituent; D =

group forming a cvanine dve and linked through conjugated bonds with the

oxazole moiety; X- = counter ion). The spectral sensitizers increase both photog.

speed and wash off property resulting in low residual dye stain. They

suited for color papers and medical x-ray films of rapid processing

s.
1/2356-56-8 172356-99-9
RL: DEV (Device component use); USES (Uses)
(silver halide photog, material spectrally sensitized by cyanine dye)
1/2356-56-8 CAPLUS
Benzoxazolium, 2-[2-[[5-chloro-3-(3-sulfopropyl)-2(3H)-benzoxazolylidene]methyl]-1-buten-1-yl]-5,6-dimethoxy-3-[2[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ANSWER 61 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ISSION NUMBER: 1995:773037 CAPLUS

IMENIT NUMBER: 123:48163a, 48166a

E: 123:48163a, 48166a

Silver halide photographic material spectrally

sensitized by trinuclear cyanine and containing

hydrazine for enhanced contrast

Yoshida, Tetsuo

INTOR(S): Yoshida, Tetsuo

CDE: JUJ Photo Film Co Ltd, Japan

Jpn. Kokai Tokkyo Koho, 53 pp.

CODEN: JKXXAF

BURGE: Japanese

LLY ACC. NUM. COUNT: 1

Japanese

LLY ACC. NUM. COUNT: 1

Japanese ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07120863	A	19950512	JP 1993-286148	19931022
<				
JP 3038462	B2	20000508		
PRIORITY APPLN. INFO.:			JP 1993-286148	19931022

<-GI For diagram(s), see printed CA Issue.
AB The photog. material contains (1) a hydrazine derivative
RIN(A1)N(A2)GIR2 (R1</pre>

Al)M(A2)GIR2 (RI

= aliphatic or aromatic substituent; R2, R3 = H, alkyl, aryl, unsatd.
heterocyclic ring, alkoxy, aryloxy, amino, hydrazine, etc.; GI = CO, SO2,
SO, FOR3, COCO, thiocarbonyl, iminomethylene; A1, A2 = H, alkylsuifonyl,
arylsuifonyl, acyl) and (2) a spectral sensitizer I (ZI, Z2, Z3 = 5- or
6-membered N-containing heterocyclic ring; R1, R2, R3 = H, alkyl, aryl,
heterocyclic ring; at least 2 of R1, R2, and R3 are organic groups with
water-solubilizing groups; L1-L7 = methyne; n, m = 0, 1; M1 = counter
ion). The material has high contrast and is suitable for scanners and
laser image recording. It is little affected by exhaustion of a
lover

168409-33-4

RL: TEM (Technical or engineered material use); USES (Uses) (Ag halide photog. material spectrally sensitized by trinuclear cyanine

and containing hydrazine for enhanced contrast)
168409-33-4 CAPLUS
Benzothiazolium, 2-[(3-ethyl-5-[2-[4-methyl-3-(4-sulfobutyl)-2(3H)-

thiazolylidene]ethylidene]-4-oxo-2-thiazolidinylidene]methyl]-5,6-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt, potassium salt (1:1) (CA INDEX NAME)

ANSWER 62 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1995:753716 CAPLUS

123:301415 123:53775a.53778a

KIND DATE

19950519

19961231

<---ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT GI

123:53775a,53778a
Silver halide photographic materials providing low residual color
Kuno, Koichi; Suga, Shuzo
Fuji Photo Film Co Ltd, Japan
Jpn. Kokai Tokkyo Koho, 32 pp.
CODEN: JKXXAF

APPLICATION NO.

JP 1993-293825

US 1996-589210

JP 1993-293825

US 1994-331193

DATE

19931101

19960122

A 19931101

ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

JP 07128779

US 5589325

OROH

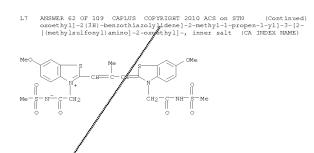
PRIORITY APPLN. INFO.:

TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
PATENT NO.

L7 ANSWER 61 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

The materials comprise supports coated with Ag halide emulsions that are spectrally sensitized by DYE-Gn or DYE-G-n [DYE = methyne dye; n = 1, 3; G, G = substituent TIGINHG2 or TIGIN-G2 (T1 = linking group; G1 = CO, SO, SO2; G2 = COT2, SO2T2, CN; T2 = monovalent group)] and contains a phenoxy alc. I [R = alkylene, X = halo, NC2, alkyl, (substituted) amino, COR2, SO3M [R2 = H, CM, alkyl, alkoxy, (substituted) amino; M, alkali metal, monovalent cation]; n = 0-5]. The materials show high sensitivity and low residual color.

Ti 165594-05-8
RL: TEM (Technical or engineered material use); USES (Uses) (Ag halide photog, material containing spectral sensitizing dye and phenoxy
alc. for low residual color stain)
RN 165594-05-8 CAPLUS
CN Benzothiazolium,
6-methoxy-2-[3-[6-methoxy-3-[2-[(methylsulfonyl)amino]-2-



ANSWER 63 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

1995:746412 CAPLUS

MENT NUMBER: 124:41266

124:41266

124:7609a,7612a

Image forming method by hydrazine-containing silver
halide photographic material spectrally sensitized by
trinucleic cyanine
Yoshida, Tetruo

Fuji Photo Film Co Ltd, Japan
Jpn. Rokai Tokkyo Roho, 59 pp.
CODEN: JKKXAF
Patent

SUAGE: LLY ACC. NUM. COUNT: 1

NOT INFORMATION: ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. A JP 07120893 19950512 JP 1993-287316 19931025 PRIORITY APPLN. INFO.: JP 1993-287316 19931025 The photog. material, having  $\geq 1$  Ag halide emulsion layer (250 mol% AgCl) and containing hydrazine compound RINAINA2GIR2 [R1 = aliphatic, aromatic; R2 = H, alkyl, aryl, unsatd. heterocyclic, etc.; G1 AB , SO2, SO, COCO, CS, iminomethylene; A1, A2 = H, (substituted) alkyl, aryl, etc.] and a spectral sensitizer I (L1-7 = methyne), is developed by a dihydroxybenzene-free developer containing PC(:Y)C(R1):C(R2)Q [R1, R2 = (substituted) amino, SH, alkylthio; P, Q = OH, carboxyl, alkoxy, (substituted) alkylsulfo, amino, aryl; Y = O, NR3; R3 = H, OH, (substituted) alkyl, acyl]. The photog. material may contain a nucleating acting accelerator of amines, disulfides, oniums, and/or hydroxymethyl compds. The material gives an image with high contrast suitable for graphic arts. 168091-51-8 188091-51-8 RL: DEV (Device component use); USES (Uses) (sensitizer; development of hydrazine-containing Ag halide photog. material iial
 spectrally sensitized by trinucleic cyanine by hydroxybenzene-free
developer)
168091-51-8 CAPLUS developer)
168091-51-8 CAPLUS
Benzothiazolium, 2-[[3-ethyl-5-[2-[4-methyl-3-(4-sulfobutyl)-2(3H)-thiazolylidene]ethylidene]-4-oxo-2-thiazolidinylidene]methyl]-5,6-dimethoxy-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, sodium salt (1:1) (CA INDEX NAME)

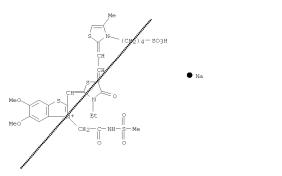
ANSWER 64 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1995:712005 CAPLUS

123:97735 123:17179a,17182a

ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

TITLE:

L7 ANSWER 63 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



123:17179a,17182a
Methine compounds and silver halide photographic
materials containing the compound.
Inagaki, Yoshio, Suga, Shuzo
Fuji Photo Film Co., Ltd., Japan
Eur. Pat. Appl., 57 pp.
CODEN: EPXXDW INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE EP 638841 A2 19950215 EP 1994-108693 19940607 ED 638841 19950913 EP 638841 EP 638841 R: DE, FR, GB JP 07056265 Α 19950303 JP 1994-125318 19940607 20040106 19951107 PRIORITY APPLN. INFO.: JP 1993-137462 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOUNCE(S):

AB A Ag halide photog. material contains a compound of formula: (DYE)(G)n or

(DYE)(G-) [DYE = a methine dye residue; G and G = each = a substituent for

the methine dye residue, and are represented by formulas -TI-GINNG2 and

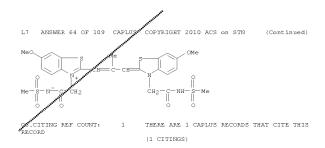
-TI-GIN-G2 resp.; TI = a divalent linking group; G1 = a carbonyl group, a

sulfinyl group, or a sulfonyl group; G2 = -CO-T2, -SO-T2, -SO2-T2, or a

cyano group; and T2 = a monovalent group; n = an integer of from I to 6].

The spectral sensitivity of the material is high, and the material has

few 



ANSMER 65 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

1995:693795 CAPLUS

MENT NUMBER: 123:133362

123:132364h, 32365a

Silver halide photographic materials and methine compounds

compounds

Inagaki, Yoshio

Fuji Photo Film Co Ltd, Japan

Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JXXXAF

MENT TYPE: Japansee

LY ACC. NUM. COUNT: 1

Japansee

LY ACC. NUM. COUNT: 1 ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE: INVENTOR (S) PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07128782	A	19950519	JP 1993-276653	19931105
< PRIORITY APPLN. INFO.:			JP 1993-276653	19931105
GT				

- The photog. materials contain the compound I or II (Q = benzoxazole, thiazoline; L1-4 = methine; T1 = divalent residue; G1 = CO, SO, SO2; G2 = CO72, SO72, SO272, CN; T2 = monovalent residue; R2-3 = alky1, alkylene forming heterocycle; X- = anion). The methine compds. I and II are claimed. The materials prevent residual color stains. 167687-00-5AB

- 167687-00-5
  RL: DEV (Device component use); USES (Uses)
  (hemicyanine spectral sensitizing dyes for silver halide photog.
  materials)
  167687-00-5 CAPLUS
  Benzoxazolium, 2-[4-[(carboxymethyl)ethylamino]-1,3-butadien-1-yl]-5chloro-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

L7 ANSWER 65 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

ANSWER 66 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1995:661173 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 124:8801 124:1861a,1864a 124:1861a,1864a
Substituted indole-, indene-, pyranoindole- and tetrahydrocarbazolealkanoic acid derivatives as inhibitors of PLA2 and lipoxygenase
Musser, John H.; Kreft, Anthony F., III; Failli, Amedeo A.; Demerson, Christopher A.; Shah, Uresh S.; Nelson, James A. American Home Products Corporation, USA
U.S., 35 pp. Cont.-in-part of U.S. 5,229,516.
CODEN: USXXXAM
Fatent TITLE: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5420289	A	19950530	US 1993-29199	19930310
CA 2090042	A1	19910428	CA 1990-2090042	19901027
US 5229516	A	19930720	US 1992-911434	19920710
PRIORITY APPLN. INFO.:			US 1989-428260 B	2 19891027
			US 1990-596134 B	2 19901011
<			US 1992-911434 A	2 19920710
<			CA 1990-2070422 A	3 19901027
<	IC DAMEN		THE LONG DECREASE BODANT	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): CASREACT 124:8801; MARPAT 124:8801

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

This invention relates to substituted indole derivs. A(CH2)nOB wherein A

I or II wherein Rl is hydrogen, lower alkyl, Ph or Ph substituted with trifluoromethyl; R2 is hydrogen or lower alkyl; or Rl and R2 taken together form a benzene ring; R3 is hydrogen or lower alkyl; n is 1-2; B is III-VII wherein R4 is, e.g., CO2R2, m is 0-3; R5 is A(CR2) mCO6R4 or Ph or Ph substituted by halo, lower alkylthio, lower alkylsulfinyl or lower alkylsulfinyl; R6 is A(CR2) nO or halo; R7 is lower alkyl; is CR2 or O; R8 is lower alkyl or (CH2)mCO2R3; R9 is COR1O or (CH2)oR1O, o is 1-4;

is lower alkyl, Ph, Ph substituted with carboxy, halo, lower alkyl, loweralkylthio or loweralkylsulfinyl; naphthyl, pyridyl, furanyl,

ANSWER 66 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) quinolinyl, or 2-R14-thiazolyl; R11 is lower alkyl or phenyl; R12 is hydrogen or loweralkylcarbonyl R13 is hydrogen, hydroxy, lower alkyl or lower alkoy; R14 is Ph or halophenyl; Z2 is hydrogen, lower alkyl or N(CH3)OH; and the pharmacol. acceptable salts thereof possessing lipoxygenase inhibitory, phospholipase A2 inhibitory and leukotriene antagonist activity, which are useful as anti-inflammatory, antiallergic and cytoprotective agents. Thus, e.g., condensation of 2-methyl-5-(2-quinolinylmethoxy)indene-3-acetic acid Et ester (prepn. given, mixt. of endo and exo isomers) with p-chlorobenzaldehyde afforded

3-[(4-chlorophenyl)methylene]-2-methyl-6-(2-quinolinylmethoxy)-3H-indene-1acetic acid [VIII, Q = 2-quinolinylmethyl, mixt. of Z (major) and E
(minor) isomers]. The specificity of action of PLA2 inhibitors can be
detd. by the activity of test compds. to inhibit the synthesis of LTB4 by
rat glycogen-elicited polymorphonuclear leukocytes (PMN) in the presence
of exogenous substrate: VIII demonstrated 96% inhibition at 10 mN. VIII
also inhibited the synthesis of the arachidonic acid cyclooxygenase oxidn.

n.

product PGE2 with 81% inhibition at 10 mM. VIII inhibited the release of arachidonic acid from an arachidonic acid-contq. substrate by the action of phospholipase A2 enzyme from human synovial fluid with IC50 = 9.7 mM. Further assays demonstrated that the compds. of the invention exerted an inhibitory effect on both the lipoxygenase pathway and the cycloxygenase pathway and have significant leukotriene (LTD4) antagonist activity. The compds. of the invention inhibited the acute inflammatory response and inhibited 5-lipoxygenase in human whole blood.

138872-84-3P
RL: BRC (Biological activity or effector, except adverse); BSU logical

ogical study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (substituted indole-, indene-, pyranoindole- and tetrahydrocarbazolealkanoic acid derivs. as inhibitors of PLA2 and

lipoxygenase)
135872-84-3 CAPLUS
1HF-Indole-3-acetamide, 1-[(4-chlorophenyl)methyl]-2-methyl-N-(phenylsulfonyl)-5-(2-quinolinylmethoxy)- (CA INDEX NAME)

OS.CITING REF COUNT:

THERE ARE 23 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINGS)

ANSWER 66 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
RENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

ANSWER 67 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1995:641018 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 123:286097 123:51275a,51278a 123:51275a,51278a
Pyrimidinyl alkanoic acid amide derivatives, salts, and herbicidal compositions
Yoshimura, Takumi; Toriyabe, Keiji; Masuda, Katsumi; Hanai, Ryo
Kumiai chemical industry co., ltd., Japan; Ihara chemical industry co., ltd.
U.S., 30 pp. Cont.-in-part of U.S. Ser. No. 916,127.
CODEN: USXXXMM TITLE: INVENTOR(S): PATENT ASSIGNEE(S) . SOURCE DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.  US 5418212	KIND  A	DATE  19950523	APPLICATION NO. US 1993-53008	DATE  19930427
US 5411934	A	19950502	US 1992-916127	19920730
PRIORITY APPLN. INFO.:			JP 1990-330168 A	19901130
<			US 1992-916127 A2	19920730
<			WO 1991-JP1649 W	19911129

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): CASREACT 123:286097; MARPAT 123:286097 OTHER SOURCE(S):

The present invention provides a novel alkanoic acid amide derivative of

formula I [wherein R1 is a hydrogen atom, an alkyl group or an alkoxyalkoxy group, R2 is a group of So2R (R = e.g., alkyl) or a hydroxyl group, R5 is an alkyl group, R3 is an alkyl group, a cycloalkenyl group or a Ph group, R4 is a hydrogen atom or an alkyl

group,

X and Y may be the same or different and are an alkoxy group, an
alkylamino group or a dialkylamino group, and Z is a nitrogen atom] and

L7 ANSWER 67 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) its salt, a process for prepg. the same and a herbicidal compn. contg. the same as an effective ingredient. This compd. kills annual and perennial weeds grown in paddy fields and upland fields at a small dose, and is to a useful crop plant. Thus, e.g., 2.
2-(4,6-dimethoxypyrimidin-2-yl)-3-methylbutyric acid (prepn. given) was treated with carbonyldimidazole in THF to afford 2-(4,6-dimethoxypyrimidin-2-yl)-3-methylbutyrylimidazole (86.7% yield); amidation of the latter with methanesulfonamide afforded 2-(4,6-dimethoxypyrimidin-2-yl)-3-methyl-N-methylsulfonylbutyric acid amide (76.8% yield) which demonstrated an herbicidal effect of at least 90% against barnyardgrass, monochoria, and bulrush. 140704-78-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (pyrimidinyl alkanoic acid amide derivs., salts, and herbicidal compns.)
140704-78-5 CAPLUS 2-Fyrimidineacetamide, 4,6-dimethoxy-N-(methylsulfonyl)- (CA INDEX NAME)

(1 CITINGS) THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT: FORMAT

ANSWER 68 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1995:459462 CAPLUS
MENT NUMBER: 122:201055
INAL REFERENCE NO: 122:36503a,36506a
E: Silver halide photographic material for super high-contrast images
NTOR(S): Yamazaki, Kazuki; Okazaki, Masaki; Fujiwara, incri ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:

INVENTOR(S): INVENTOR(S):
Yoshinori
PATENT ASSIGNEE(S):
SOURCE: Fuji Photo Film Co Ltd, Japan Jpn. Kokai Tokkyo Koho, 53 pp CODEN: JKXXAF Patent Japanese

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
<	JP 06250322	Α	19940909	JP 1993-33722	-	19930223
<	US 5480886	A	19960102	US 1994-334362		19941103
	RITY APPLN. INFO.:			JP 1992-351136	Α	19921207
<				JP 1992-352393	Α	19921211
·				JP 1992-354748	Α	19921217
<				JP 1992-356502	Α	19921222
<				JP 1993-33722	A	19930223
<				JP 1993-75084	Α	19930310
<				JP 1993-96449	A	19930401
<				US 1993-161580	В1	19931206
	GNMENT HISTORY FOR	US PATENT	AVAILABLE	IN LSUS DISPLAY FORM	ΙΑΤ	

ANSWER 68 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

In the title photog. material, the Ag halide emulsion layer is made of a chemical-sensitized Ag halide particle containing 50% of AgCl containing AB

1x10-8-5x10-6 mol/mol(Ag) and 1x10-8-1x10-6 mol/mol(Ag) and spectrally sensitized by a dye selected from I or II (each R and V is a specified organic group), and a hydrazine compound is contained. 161911-20-2 161381-21-3
RL: DEV (Device component use); USES (Uses)
(sensitizing dye contained in photog. film)
161911-20-2 GPPLUS
1H-BenzimidaeClium, iichloro-2-1 3-441-4-1 3 2 1 1 6 is

IT

RN

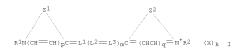
5,6-dichloro-2-03-[5,6-dichloro-1,3-dihydro-1,3-bis[2-[(methylsulfonyl)amino]-2-oxoethyl]-2H-benzimidazol-2-ylidene]-1-propen-1-yl]-y-methyl-3-(3-sulfopropyl)-, inner salt (CA INDEX NAME)

RN 161911-21-3 CAPLUS CN 1H-Benzimidazolium, 5,6-dichloro-2-[3-[5,6-dichloro-1,3-dihydro-1-methyl-3-

[2-[(methylsulfonyl)amino]-2-oxoethyl]-2H-benzimidazol-2-ylidene]-1-propen-

ANSWER 69 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1995:339378 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 122:118768 122:22027a,22030a 122:22/2/A,22030a silver halide color photographic material Kuroishi, Masayuki; Ikegawa, Akihiko Fuji Photo Film Co Ltd, Japan Jpn. Kokai Tokkyo Koho, 51 pp. CODEN: JKXXAF TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE

JP 06138574 19940520 JP 1992-309751 19921026 PRIORITY APPLN. INFO.: JP 1992-309751 19921026 GI



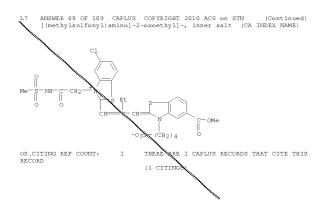
A silver halide color photog, material showing improved photosensitivity and granularity without causing increased residual color formation after development comprises  $\geq 1$  photosensitive silver halide emulsion layer and  $\geq 1$  nonphotosensitive layer, wherein the silver halide grains in the photosensitive silver halide emulsion layer contain  $\geq 4$  mol% of Ag1 and  $\geq 1$  of the photog. layers contains  $\geq 1$  methine compound represented by the formula I [R1 = (CH2)\*COMHSOCR3, (CH2)\*COMHSOCR3, (CH2)\*USONBSOCR6 where R3-6 = alkyl, alkoxy, or amino; r, s, t, u = an integer of 1-5; R2

alkyl or R1, Z1, Z2 = a nonmetallic atomic group necessary for forming a 5-6-membered heterocyclic ring; p, q = 0 or 1;  $\rm L1-3$  = a methine group; m 0, 1, or 2; X = an anion; k = a number necessary to adjust the charge of

the

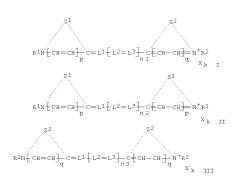
compound to 0].

148364-36-7P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation and use of, in silver halide color photog. material)
148364-36-7 CAPLUS
Benzothiazolium, 5-chloro-2-[2-[[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-benzothiazolylidene]methyl]-1-buten-1-yl]-3-[2-



ANSWER 70 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN
SSION NUMBER: 1994:641569 CAPLUS
MENT NUMBER: 121:241569
INAL REFERENCE NO.: 121:43861a, 43864a
E: Silver halide photographic material
NTOR(S): Ikegawa, Akihiko; Kuramitsu, Masayuki; Okazaki, ki L7 ANSWER 70 OF 109 CACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
TITLE:
INVENTOR(S):
Masaki
PATENT ASSIGNEE(S):
SOURCE: Fuji Photo Film Co Ltd, Japan Jpn. Kokai Tokkyo Koho, 96 pp. CODEN: JKXXAF Patent Japanese DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	FRIDINI NO.	LUTIAD	DAIL	AFFEICHTION NO.		DALL
	JP 05265123	A	19931015	JP 1992-94872		19920323
<						
	US 5308748	A	19940503	US 1993-35697		19930323
<						
PRIOR	RITY APPLN. INFO.:			JP 1992-94872	Α	19920323
<						
ASST	SNMENT HISTORY FOR U	S PATENT	r AVAILABLE	IN LSUS DISPLAY FORMA	т	



AB The title photog. material contains I, and II and/or III [R1 = -(CH2)rCONHSO2R3, -(CH2)sSO2NHCOR4, -(CH2)tCONHCOR5, -(CH2)uSO2NHSO2R6; R3-6 = alkyl, alkoxy, amino; r, s, t, u = 1-5; Z1,2 = non-metallic atoms required to complete a 5- or 6-membered heterocyclic ring; L1-3 = methine;

L7 ANSWER 70 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ANSWER 70 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

n = 0-2; X = anion; k = no. to neutralize charge in mol., p, q = 0, 1] in

its Ag halide photog, emulsion layers. This material shows reduced

residual color and high sensitivity.

157158-16-2 157158-16-4

RL: TEM (Technical or engineered material use); USES (Uses)

(photog, sensitizer)

157469-16-2 CAPLUS

Benzothtonollum, 5-choloro-2-[2-[[5-chloro-3-[2-[(methylsulfonyl)amino]-2
oxocethyl-2-(Dm. benzothiazolylidene]methyl]-1-buten-1-yl]-3-[2[(methylsulfonyl)amino]-2-oxocthyl-, bromide (1:1) (CA INDEX NAME)

RN

• Br

157158-18-4 CAPLUS Benzothiazolium, 5-chloro-2-[3-[5-chloro-3-[2-[[(2-hydroxyeth)]sulfonyl]amino]-2-oxoethyl]-2(3H)-benzothiazolylidene]-2-

CRN 157158-17-3 CMF C26 H27 C12 N4 O8 S4

CRN 16722-51-3 CMF C7 H7 O3 S

OS.CITING REF COUNT:

CM 2

> THERE ARE 2 CAPLUS RECORDS THAT CITE THIS (2 CITINGS)

(Continued) PAGE 1-A

PAGE 2-A

(Continued)

ANSWER 71 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1994:617485 CAPLUS
MENT NUMBER: 121:217485
LINAL REFERENCE NO.: 121:39375a, 39378a
Silver halide photographic photosensitive material
Alda, Shunichi, Ikegawa, Akihiko
NT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
CC: Upin Nokai Tokkyo Koho, 48 pp.
CODEN: JKXXAF
MENT TYPE: Upin Colonia Japanese
LY ACC. NUM. COUNT. L7 ANSWER 71 OF 109 (
ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. JP 05297498 19931112 JP 1992-125467 19920420 19920420 PRIORITY APPLN. INFO.: JP 1992-125467

MARPAT 121:217485 OTHER SOURCE(S):

 $R^{1}-N$  (CH = CH)  $C=L^{1}-(L^{2}-L^{3})$  C (CH - CH)  $(x^1)_k$ 

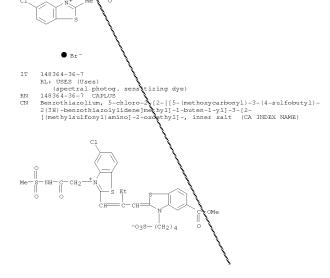
In the title material,  $\geq 1$  of the Ag halide emulsion layers contains a Ag halide emulsion having a Ag halide grain size <0.3  $\mu m$  and  $\geq 1$  kind (s) of methine compds. I |R1 = (CH2)r-CONNSO2-R3, (CH2)s-SOZNHSO-R4, (CH2)t-CONNEO-R5, (CH2)u-SOZNHSO2-R6; R3-6=alky1, alkoxy, amino; r, s, t, u=1-5; R2=R1, alky1, 21-2=atons for forming a 5- or 6-membered heterocyclic ring; p, q=0, 1, L1-L3=methine; m=1

1, 2; X1 = anion; k = a number for adjusting mol. charge to 0]. The material

ilal shows high spectral sensitivity, little residual color after development, and improved graininess. 148350-04-3P

14835-04-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, for spectral photog. sensitizing dye)
14835-04-3 CAPLUS
Benzothiazolium, 5-chloro-2-methyl-3-[2-[(methylsulfonyl)amino]-2oxoethyl]-, bromide (1:1) (CA INDEX NAME)

ANSWER 71 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN



ANSWER 72 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1994:617476 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 121:217476 121:39371a,39374a TITLE: INVENTOR(S):

121:39371a, 39374a Silver halide color photographic material Sakurarawa, Mamoru; Ikegawa, Akihiko Fuji Photo Film Co Ltd, Japan Jpn. Kokai Tokkyo Koho, 81 pp. CODEN: JKXXAF Fatent PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KTND DATE APPLICATION NO. DATE JP 05265157 19931015 JP 1992-92356 19920319 PRIORITY APPLN. INFO.: JP 1992-92356 19920319

AB The title full color photog. material contains I [R1 = -(CH2)rCONHSO2R3, -(CH2)sCONHSO2R4, -(CH2)tCONHSO2R5, -(CH2)uCONHSO2R6; R3-6 = alkyl,

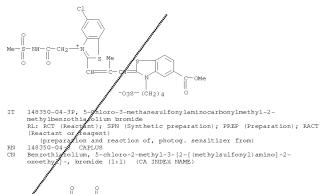
alkoxy,
amino; r, s, t, u = 1-5; R2 = same as R1 or alky1; Z1,2 = non-metallic
atoms required to complete a 5- or 6-membered heterocyclic ring; L1-3 =
methine; m = 0-2; X = anion; k = number to neutralize charge in mol.; p,

0, 1], and a magenta coupler II [R1 = H, substituent; Z = non-metallic atoms required to complete a 5-membered azole ring containing 2-4 N's; X

group releasable on coupling reaction with oxidized developing agent]. This material shows reduced residual color. 149702-97-6 RL: TEM (Technical or engineered material use); USES (Uses) (photog. sensitizer)

ANSWER 72 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN 149702-97-6 CAPLUS (Continued) Benzothiazolium. 5-chloro-2-[3-[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-

 $\label{localization} benzothiazolylidene]-2-methyl-1-propen-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)$ 



ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:

ANSWER 73 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1994:591093 CAPLUS
MENT NUMBER: 121:91093
ITAL REFERENCE NO.: 121:34483a, 34486a
methine compound and silver halide photographic
material using same
NTOR(S): Hioki, Takanori; Ikegawa, Akihiko
NT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
CE: Jpn. Kokai Tokkyo Koho, 33 pp.
CODEN: JKXXAF
MENT TYPE: Patent INVENTOR (S) PATENT ASSIGNEE(S): SOURCE:

Patent Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05273684	A	19931022	JP 1992-98503	19920326
<				
PRIORITY APPLN. INFO.:			JP 1992-98503	19920326
<				
OTHER SOURCE(S):	MARPAT	121:191093		

AB Claimed are a methine compound I [Z1-3 = atoms required to complete a 5-

6-membered N-containing heterocyclic ring; L1-9 = methine group; 1, o = 0, 1;

05-2 CAPLUS azolium, 5-chloro-2-[[5-(3-ethyl-2(3H)-benzothiazolylidene)-3-[2-kylfonyl)amino]-2-oxoethyl]-4-oxo-2-thiazolidinylidene]methyl]-3-kylsulfonyl)amino]-2-oxoethyl]-, iodide (1:1) (CA INDEX NAME) Benzoth

ANSWER 73 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

 $\label{local-problem} \begin{array}{lll} 157939-96-3 & \text{CAPLUS} \\ \text{Benzothiazolium, } 5-\text{chloro-}3-[2-[(\text{methylsulfonyl})\text{amino}]-2-\text{oxoethyl}]-2-[[3-[(\text{methylsulfonyl})\text{amino}]-2-\text{oxoethyl}]-5-[3-[2-[(\text{methylsulfonyl})\text{amino}]-2-\text{oxoethyl}]-2(3H)-\text{benzothiazolylidene}]-4-\text{oxo-}2-\text{thiazolidinylidene}]\text{methyl}]-,\\ \text{iodide } & (1:1) & (\text{CA INDEX NAME}) \end{array}$ 

(Continued)

L7 ANSWER 73 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) L7 ANSWER 73 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

148350-04-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP Reparation (Reactant or reagent) (preparation and reaction of, photog. sensitioning dye from) 148350-04-3 CAPLUS Benzothiazolium, 5-chloro-2-methyl-3-[2-[

IT

157940-11-9P
RL: PREP (Preparation)
(preparation of, as photog. sensitizing dye)
157940-11-9 CAPLUS
Benzothiacolium, 5-chloro-2-[[3-ethyl-5-[2-(3-ethyl-4-methyl-2(3H)-thiazolylidene)ethylidene]-4-oxo-2-thiazolidinylidene]methyl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE:

ANSWER 74 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1994:521597 CAPLUS
MENT NUMBER: 121:2121597
INNAL REFERENCE NO.: 121:21725a, 21728a
E: Processing method for high-sensitivity silver halide color photographic photosensitive material
NTOR(S): Kuroishi, Masayuki; Ikegawa, Akihiko
NTOR SSIGNEE(S): Fuji Photo Film Co Ltd, Japan
Jpn. Kokai Tokkyo Koho, 42 pp.
CODEN: JKXXAF
MENT TYPE: Patent INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

Patent Japanese

PATENT N	ю.	KIND	DATE	API	LICATION NO.	DATE
JP 05297	543	A	19931112	JP	1992-125464	19920420
<						
PRIORITY APPI	N. INFO.:			JP	1992-125464	19920420
<						
OTHER SOURCE	S):	MARPAT	121:121597			

$$\begin{array}{c} \mathbf{z}^{1} \\ \mathbf{z}^{1} \\ \mathbf{z}^{1} \\ \mathbf{z}^{1} \\ \mathbf{z}^{2} \\ \mathbf{z}$$

The title method processes a Ag halide color photog, photosensitive material containing 21 kind(s) of methine compds. I [R1 = (-CH2-)+CONHSO2-R3, (-CH2-)+SO2NHOOR4, (-CH2-)+CONHCO-R5, (-CH2-)-U-SO2NHSO2-R6; R3-R6 = alkyl, alkoxy, amino; r, s, t, u = 1-5; R2 AB

R1, alkyl, Z1, Z2 = nonmetallic atoms for forming 5- or 6-membered heterocyclic ring; p, q = 0, 1; L1-L3 = methine group; m = 0-2; X1 = anion; k = number necessary for adjusting charge in the mol. to zero] and the

and the processing method comprises color development with a color developer having a pH >11. The invention provides color images without residual color after developing-processing a high-sensitivity color photog. photosensitive material.

IT 148364-36-7
RL: USES (Uses)
(photog. sensitizing dye, for high-sensitivity photosensitive material)
RN 148364-36-7 CAPLUS
CN Benzothiazolium, 5-chloro-2-[2-[[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-benzothiazolylidene]methyl]-1-buten-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

148350-04-3P, 5-Chero-3-methanesulfonylaminocarbonylmethyl-2-methylbenzothiazolfum bromide
RL: RCT (Reactant; SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation) and reaction of, for photog. sensitizing methine dye)
148350-04-3 CRPLUS

RPLOS n, 5-chloro-2-methyl-3-[2-[(methylsulfonyl)amino]-2-omide (1:1) (CA INDEX NAME) Benzothiazoli oxoethyl]-,

ANSWER 75 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1994:508550 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 121:108550 121:19591a,19594a

TITLE: Preparation of 2-substituted quinolines, and their

in medicaments
Raddatz, Siegfried; Mohrs, Klaus Helmut; Matzke,
Michael; Fruchtmann, Romanis; Hatzelmann, Armin;
Kohlsdorfer, Christian; Mueller-Peddinghaus, Reiner;
Theisen-Popp, Pia
Bayer A.-G., Germany
U.S., 26 pp. Cont.-in-part of U.S. Ser. No. 834,734.
CODEN: USXXAM
Patent
English
3 INVENTOR(S):

DATENT ASSIGNEE(S) .

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
<	US 5304563	Α	19940419	US 1992-967881		19921028
	DE 4105551	A1	19920827	DE 1991-4105551		19910222
<	DE 4226649	A1	19940217	DE 1992-4226649		19920812
	RITY APPLN. INFO.:			DE 1991-4105551 A	1	19910222
<				US 1992-834734 A	12	19920212
<				DE 1992-4226649 A	1	19920812
<						

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): GI MARPAT 121:108550

Title compds. I (A, B, D, E, G, L = H, HO, halo, NC, HO2C, O2N, F3C, F3CO.

C1-8 alkyl, C1-8 alkoxy, (substituted) C6-8 aryl; R1 = halo, NC, O2N, N3, F3C, F3CO, F3CS, C1-8 alkoxy, C1-8 acyl, (substituted) C1-9 alkyl, (substituted) amino, heterocyclyl, etc.; R2 = C3-12 cycloalky or

ANSWER 75 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

145043-26-1 CAPLUS
Benzeneacetamide, 3-ethyl-N-(methylsulfonyl)-4-(2-quinolinylmethoxy)-

OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

REFERENCE COUNT: THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 75 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
R3 = (substituted) BO, PhO, R8SO2RTN wherein R7 = H, Cl-6 alkyl, R8 =
(substituted) C6-10 aryl, (substituted) Cl-8 alkyl) and a salt thereof
useful in particularly as lipoxygenase inhibitors. I are claimed for
treatment of allergies/asthma, bronchitis, emphysema, shock lung,
pulmonary hypertension, inflammations/theumatism, edemas, thromboses,
ischemias, cardiac and cerebral infarcts, angina pectoris,
atteriosclerosis, in tissue transplantation, psoriasis, and
cytoprotection
in the gastrointestinal tract (no data). Me
3-fluoro-5-hydroxyphenylacetate (prepn. given) in DMF was added to NaOH
in

in

MeOH followed by 3-(chloromethyl)quinoline in DNF to give I (A, B, D, E, G, L = H, Rl = F, CHR2COR3 = p-MeCAc). A similar prepd. compd. I (A, B, D, E, L = H = H, Rl = vinyl, CHR2COR3 = p-2-cyclopentylacetic acid) (II) inhibited 5-lipoxygenase with ICSO at 0.56 µmol/L.

II 145042-99-5p 145043-00-IP 145043-05-6P 145043-26-IP RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of lipoxygenase inhibitors;
RN 145042-99-5 CAPLUS

CN Benzenacetamide, 3-fluoro-N-(methylsulfonyl)-4-(2-quinolinylmethoxy)-(CA INDEX NAME)

 $145043-05-6 \quad \texttt{CAPLUS} \\ \texttt{Benzeneacetamide, 3-bromo-N-(methylsulfonyl)-4-(2-quinolinylmethoxy)-4-(2-quinolinylmethoxy)-4-(2-quinolinylmethoxy)-4-(3-quinolinylmethoxy)-4-($ 

ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

ANSWER 76 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

1994:499050 CAPLUS

MENT NUMBER: 121:99950

121:99950

121:19536a,17538a

Synthesis and excitatory amino acid pharmacology of some novel quinoxalinediones

Epperson, James R.; Hewawasam, Piyasena; Meanwell, Nicholas A.; Boissard, Christopher G.; Gribkoff, Valentin K.; Post-Munson, Debra

Bristol-Myers Squibb Pharm. Res. Inst., Wallingford, CT, 06492, USA

Bioorganic & Medicinal Chemistry Letters (1993), 3(12), 2801-4

CODEN: BNCLE8; ISSN: 0960-894X

JOHNAIL

MENT TYPE: Johnson AUTHOR(S):

CORPORATE SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

The synthesis and amino acid pharmacol. of 12 N-substituted quinoxalinediones is reported. In particular, (I, R = Me, or Cl) show significant antagonism at both the AMPA and glycine-site NMDA receptors. The functional antagonism of I (R = Me) was demonstrated. 156452-61-8P 156452-62-9P RE: SPN (Synthetic preparation); PREF (Preparation) (preparation and AMPA and NMDA receptor antagonist activities of, cture. AB

structure

in relation to) 156452-61-8 CAPLUS

102H)-Quinoxalineacetamide, 3,4-dihydro-6,7-dimethyl-N-(methylsulfonyl)-2,3-dioxo- (CA INDEX NAME)

156452-62-9 CAPLUS 1(2H)-Quinoxalineacetamide, 3,4-dihydro-6,7-dimethyl-N-[(4-methylphenyl)sulfonyl]-2,3-dioxo- (CA INDEX NAME)

ANSWER 77 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1994:495797 CAPLUS

121:95797 121:16983a,16986a

19930813

19980723

MARPAT 121:95797

121:16933, 16996a
Silver halide photographic material
Ikeda, Hideo; Ikegawa, Akihiko
Fuji Photo Film Co Ltd, Japan
Jpn. Kokai Tokkyo Koho, 55 pp.
CODEN: JKXXAF

APPLICATION NO.

JP 1992-36928

JP 1992-36928

DATE

19920129

19920129

ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

JP 05204082

JP 2779725 PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

TITLE: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO.

L7 ANSWER 76 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

OS.CITING REF COUNT:

THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

KIND DATE

Α

In the title material having ≥1 Ag halide emulsion layer(s), the emulsion contains ≥3 mol% of AgI and the layer(s) contains ≥1 methine compd(s). I (R1 = (CH2):CONHSO2R3, (CH2):SSO2NHCOR4, (CH2):CONHCOR5, (CH2):USO2NHSO2R6; R3-6 = alkyl, alkoxy, NH2; r, s, t, u = 1-5; R2 = R1, alkyl; Z1, Z2 = non-metallic atoms forming 5- or 6-membered heterocycles; p, q = 0,1; L1-3 = methine; m = 0-2; X1 = anion; k = ser to

number to

neutralize charge of I). The above material also contains ≥1

mercapto compd(s). II (MI = H, group protecting mercapto group cleavable
by cation or alkali; X2 = atoms forming 5- or 6-membered heterocycle which

may be substituted or fused ). The material containing I and II has improved

oved
shelf life and forms less residual color.
148364-36-7P
RL: PREP (Preparation)

ANSWER 77 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (prepn. of, photog. emulsion from) 148364-36-7 CAPLUS Bensothiasolium, 5-chloro-2-[2-[[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-bensothiasolylidene]methyl]-1-buten-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ANSWER 78 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1994:495788 CAPLUS 121:95788 121:95788 121:95788 121:9582h, 16983a Silver halide color photographic material NITOR(S): Hara, Takeshi, Ikegawa, Akihiko NIT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan Jon. Kokai Tokkyo Koho, 69 pp. CODEN: JKXXAF Patent UNGGE: Apan Japanese LY ACC. NUM. COUNT: 1 L7 ANSWER 78 OF 109 C ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. JP 05100373 19930423 JP 1991-289544 19911009 PRIORITY APPLN. INFO.: JP 1991-289544 19911009

$$z^{1} \\ z^{1} \\ z^{1} \\ z^{1} \\ z^{2} \\$$

AB In the title photog, material possessing at least each one blue-, green, and red-sensitive silver halide emulsion layer on a support, at least one constituent layer of said photog, material contains at least one development inhibitor-releasing coupler ALnGm(Time)tX [A = oxidation-reduction

parent nucleus or its precursor, which is a group of atoms capable of releasing (Time)tX only when oxidized during photog, development; Time = group capable of releasing a development inhibitor X after it leaves from the oxidized form of a; L = bivalent linkage group; G = acidic group; n, n, t = 0, 1], and at least one of silver halide emulsion layers contains at least one methine sensitizing dye [I; Rl = (CH2)rCONHSO2R3, (CH2)sSOCNHSO2R3, R4 = alkyl; r, s = 1-5; R5 = sulfoalkyl; 21, Z2 = a group of nommetal atoms required to form a 5- or 6-membered heterocyclic ring; P, q = 0, 1; L1-L3 = methine; m = 0, 1, 2]. This photog, material provides large interimage effect and excellent desilverization during photog, development.

IT 148364-36-7

RL USES (Uses) (botog, sensitizing dye, color photog, film containing)

RN 148364-36-7 CAPLUS

Bencothiazolium, 5-chloro-2-[2-[[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-benzothiazolylidene]methyl]-1-buten-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

L7 ANSWER 78 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

ANSWER 79 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1994:446483 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 121:46483 121:8223a,8226a

izirozza,ozza, Silver halide color photographic material Nagaoka, Satoshi; Yamakawa, Kazuyoshi; Yamamoto, Mitsuru; Suzuki, Makoto; Shimada, Yasuhiro; Nagaoka, Katsuro; Ikeda, Hideo; Hara, Takefumi; Shuto, INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE: Fuji Photo Film Co., Ltd., Japan Eur. Pat. Appl., 181 pp. CODEN: EPXXDW

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.  EP 566115	KIND  A1	DATE  19931020	APPLICATION NO. EP 1993-106136	DATE  19930415
<	R: BE, DE, FR, JP 05289270	GB, NL A	19931105	JP 1992-119862	19920415
<	US 5460929	A	19951024	US 1993-45776	19930414
<	US 5578441	A	19961126	US 1994-315573	19940930
	RITY APPLN. INFO.:			JP 1992-119862	A 19920415
<				US 1993-45776	A3 19930414

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 121:46483

There is disclosed a silver halide color photog. material having  $\ge 1$  red-sensitive silver halide emulsion layer,  $\ge 1$  green-sensitive silver halide emulsion layer, and  $\ge 1$  blue-sensitive silver halide emulsion layer, wherein  $\ge 1$  of the emulsion layers contains  $\ge 1$  cyan dye-forming coupler represented by the formula I wherein Za represents NH or CHR3, Zb and Zc represent CR4 or N, R1-3 represent an electron-attracting group wherein the Hammett substituent constant op value is 0.20 or more, provided that the sum of the op value of R1

ANSWER 79 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) and the op value of R2 is 0.65 or more, R4 represents a hydrogen atom or a substituent, if there are two groups R4 in the formula, they

be the same or different, and X represents a hydrogen atom or a group capable of being released upon a coupling reaction with the oxidized product of an arom. Primary amine color-developing agent, provided that R1-4 or X may be a divalent group to form a homopolymer or a copolymer by bonding with a dimer or higher polymer or polymer chain and ≥1 sensitizing dye contg. a sulfonamido group.

148364-36-7

RL: USES (Uses)

(silver halide color photog. materials containing pyrrolopyrazole cyan photog couplers and)

148364-36-7 CAPLUS

Benzothiazolium, 5-chloro-2-[2-[[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-benzothiazolium, 5-chloro-2-[-1-1-buten-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS (1 CITINGS)

L/ ANSWER 80 OF 109 (
ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
TITLE:
acid

ANSWER 80 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1994:435621 CAPLUS
MENT NUMBER: 121:35821
INAL REFERENCE NO.: 121:6587a,6590a
E: Preparation of triazinyl- and pyrimidinylalkanoic

amide derivatives as herbicides Masuda, Katsumi; Toyabe, Keiji; Yoshimura, Takumi; Yoshida, Ryo Kumiai Chemical Industry Co, Japan; Ihara Chemical INVENTOR(S):

PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 21 pp. CODEN: JXXXAF Fatent Japanese 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06041090	A	19940215	JP 1991-337875	19911128
<				
PRIORITY APPLN. INFO.:			JP 1991-337875	19911128
<				
OTHER COURCE (C).	MADDAT	101.35601		

AB Triazinyl- and pyrimidinylalkanamides [I, Rl = H, OH, (un)substituted alkyl, alkenyl, alkynyl, alkoxy, benzyloxy, alkenyloxy, alkynyloxy; R2 = SOZRS, OH, alkoxy, benzyloxy, alkenyloxy, eyano, (un)substituted Ph, NH2, alkylsulfonylamino; R5 = (un)substituted alkyl, alkenyl, cycloalkyl, (di)alkylamino, l-pyrrolidinyl, anilino; R3 = H, (un)substituted alkyl, (halo)alkenyl, alkynyl, (alkyl)cycloalkyl, cycloalkenyl, (un)substituted Ph, tetrahydrothienyl, tetrahydrofuryl; R4 = H, alkyl; X, Y = OH, halo, (halo)alkyl, alkoxyalkyl, alkoxy, (alkyl)phenoxy, haloalkoxy, alkenyloxy, alkynyloxy, alkylthio, PhS, NH2, (di)alkylamino, pyrrolidino; Z = CH, N], useful as herbicides for a rice paddy, a plowed field, and nonagricultural land are prepared Thus, di-Et 2-isopropylmalonate was treated with NAH in

DMF at 60° for 30 min and condensed with 4,6-dimethoxy-2-fluoropyrimidine to give di-Et 2-(4,6-dimethoxy-2-fluoropyrimidin-2-yl)-2-isopropylmalonate which was refluxed with NaOH in aqueous MeOH for 6 h and acidified with dilute HCl to give 2-(4,6-dimethoxypyrimidin-2-yl)-3-methylbutyric acid. The latter compound

ound was condensed with carbonyl diimidazole in THF to give 86.7% N-[2-(4,6-dimethoxypyrimidin-2-y1)-3-methylbutyryl]imidazole which was

- ANSWER 80 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) amidated with MeSO2NH2 in DMF contg. NaH to give 76.8% title compd. (II). II and other 21 I at 25 g/10 are in preemergence soil-application controlled 250% or 70-69% 7 weeds including Echinochioa crus-galli, Amaranthus retroflexus, and Chenopodium album. A total of I were prepd. 140704-78-59
- 140704-78-5P
  RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)
  140704-78-5 CAPLUS
  2-Pyrimidineacetamide, 4,6-dimethoxy-N-(methylsulfonyl) (CA INDEX NAME)

- ANSWER 81 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1994:334737 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 120:334737 120:58649a,58652a 120:58649a,58652a Direct positive silver halide photographic material containing sensitizing dyes Kato, Seichi; Ikegawa, Akihiko; Kuramitsu, Masayuki Fuji Photo Film Co Ltd, Japan Jpn. Kokai Tokkyo Koho, 35 pp. CODEN: JKKXAF TITLE: INVENTOR(S):
  PATENT ASSIGNEE(S):
  SOURCE: DOCUMENT TYPE:
- PATENT NO. KIND DATE APPLICATION NO. DATE JP 05127292 19930525 JP 1991-313066 19911101 PRIORITY APPLN. INFO.: JP 1991-313066 19911101
- $z^1$  ${\tt R^1N-(CH=CH)_p-C=L^1-(L^2=L^3)_n-C=(CH-CH)_q=N^+R^2} - {\tt I}$
- In the title photog, material having on its support  $\geq 1$  photosensitive emulsion layer(s) containing unprefogged internal latent image-type Rg halide grains,  $\geq 1$  of sensitizing dye I [Rl = (CH2)rCONHSO2R3, (CH2)sSO2NHCOR4 (R3, R4 = alkyl, r, s = 1-5); R2 = sulfoalkyl, Z1, Z2 = non-metallic atoms required to form 5-6-membered heterocycle; p, q = 0, 1, L1-3 = mething; m = 0-2] is contained. The photog, material shows high-stability and superior whiteness without color
- IT

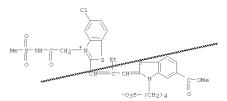
FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

- residue after processing.

  148364-36-7
  RL: USES (Uses)
  (sensitizing dye, direct pos. photog. material using)

  148364-36-7 CAPLUS
  Benzothiazolium, 5-chloro-2-[2-[[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-benzothiazolylidene]methyl]-1-buten-1-yl]-3-[2[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ANSWER 81 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



- ANSWER 82 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

  1994;298483 CAPLUS

  120:228483

  120:228483

  120:228483

  120:228483

  120:228483

  SUBSTITUTE:

  Extra Substituted indole-, indene-, pyranoindole- and tetrahydrocarbazole-alkanoic acid derivatives as inhibitors of phospholipase A2 and lipoxygenase Musser, John H.; Kreft, Anthony F., III; Failli, Amedeo A.; Demerson, Christopher A.; Shah, Uresh S.; Nelson, James A.

  American Home Products Corp., USA

  US., 32 pp. Cont.-in-part of U.S. Ser. No. 596,134, abandoned.

  CODEN: USXXAM

  Patent

  BURGE:

  HANGE COUNT: SUXXAM

  Patent

  English

  13 NORMATION: ACCESSION NUMBER:
  DOCUMENT NUMBER:
  ORIGINAL REFERENCE NO.: INVENTOR(S):
- DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

				APPLICATION NO.	DATE
<	US 5229516	A	19930720	US 1992-911434	19920710
<	CA 2070422	A1	19910428	CA 1990-2070422	19901027
	CA 2090042	A1	19910428	CA 1990-2090042	19901027
<	HU 63407	A2	19930830	HU 1992-1383	19901027
	US 5420289	A	19950530	US 1993-29199	19930310
<	WO 9401407	A2	19940120	WO 1993-US6441	19930707
<	WO 9401407	A3	19940303		
		BR, BY	, CA, CZ,	FI, HU, JP, KP, KR, K	Z, LK, MG, MN,
	RW: AT, BE, CH,	DE, DK	, ES, FR,	GB, GR, IE, IT, LU, M GN, ML, MR, NE, SN, T	
				AU 1993-46694	
<	110 30 1003 1	**	20010202	110 2330 10031	25500707
	RITY APPLN. INFO.:			US 1989-428260	B2 19891027
<				US 1990-596134	B2 19901011
<				CA 1990-2070422	A3 19901027
<					
<				US 1992-911434	A2 19920710
<				WO 1993-US6441	A 19930707

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 120:298483
GT

L7 ANSWER 82 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

The title compds. A(CH2)nOB [A = Q; B = (un)substituted indenonyl, (un)substituted indolyl, etc.; n = 1-2], useful as antiinflammatory

which possess leukotriene antagonistic activity, are prepared Thus, 3-[(4-chlorophenyl]methylene]-[2-methyl-6-(2-quinolinylmethyoxy)]-3H-indeme-1-acetic acid (2 configuration), prepared from 4-methoxybenzaldehyde in 7 steps, demonstrated 81% inhibition of FGE2 at 10 µM.

I 135872-84-3P
RL: SPN (Synthetic preparation), PREF (Preparation) (preparation and lipoxygenase and phospholipase A2 inhibitory activity of)
RN 135872-84-3 CAPLUS
CN 1H-Indole-3-acetamide, 1-[(4-chlorophenyl)methyl]-2-methyl-N-(phenylsulfonyl)-5-(2-quinolinylmethoxy)- (CA INDEX NAME)

(7 CITINGS)
THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

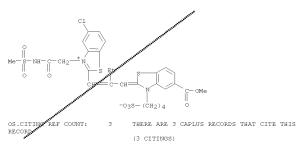
FORMAT

ANSWER 83 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) upon a coupling reaction with the oxidized product of a color-developing agent; Z1 = group of nonmetallic atoms required for forming a N-contg. 6-membered heterocyclic ring, which contains at least one group capable

being dissocd.], and (a) a monodisperse Ag halide emulsion, (b) non-photosensitive Ag halide emulsion wherein the inside or the surface

grains is fogged, (c) a colloidal Ag, (d) neg.-type internal latent image-type Ag halide grains chem. sensitized to a defined depth from the surface, (e) a sensitizing dye contg. a sulfonamide group, (f) three

layers of high, medium, and low sensitivities, (g) two sepd. layers each having different content of I, (h) grains each having a defined spectral sensitivity distribution and a DIR-hydroquinone, or (i) a DIR-hydroquinone. The novel cyan dye-forming coupler-control, photog. material is excellent in sensitivity/graininess ratio and color reprodn. 148364-36-7 RL: TEM (Technical or engineered material use); USES (Uses) (photog. sensitizer) 148364-36-7 CAPLUS Benzothiazolium, 5-chloro-2-[2-[[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-benzothiazolium, 5-chloro-2-coethyl]-, inner salt (CA INDEX NAME)



ANSWER 83 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1994:231835 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 120:231835 120:40837a,40840a

INVENTOR (S):

120:40837a,40840a
Silver halide color photographic material
Hara, Takefumi; Yamakawa, Kazuyoshi; Shuto, Sadanobu;
Yamamoto, Mitsuru; Suzuki, Makoto; Shimada, Yasuhiro;
Nagaoka, Katsuro; Nagaoka, Satoshi; Shibahara,
Yoshihiko; Ikeda, Hidde
Fuji Photo Film Co., Ltd., Japan
Eur. Pat. Appl., 234 pp.
CODEN: EFEXXIW

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	ATENT NO.  p 563985	KIND  A1	DATE  19931006	APPLICATION NO. EP 1993-105497	DATE 19930402
<	R: BE, DE, FR, P 05281681	GB, NL A	19931029	JP 1992-109131	19920403
<	P 2777949 S 5578436	B2 A	19980723 19961126		19950530
<	S 5691125 TY APPLN. INFO.:	A	19971125		19960619 19920403
<					19930405 19950530

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 120:231835

A multicolor photog, material comprises a cyan dye-forming coupler I [R1 H, substituent; R2 = substituent; X = H, a group capable of being released

ANSWER 84 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1994:148785 CAPLUS MENT NUMBER: 120:148785 120:148785 180. Silver halide photographic material NTOR (S): Ohno, Shigeru NTOR (S): Fuji Photo Film Co., Ltd., Japan U.S., 10 pp. CODEN: USXXXAM PATER UAGE: COPYRIGHT TYPE: Patent UAGE: 11 CAPLUS COUNTY 1 CONTROL TY ACCL. NUM. COUNTY 1 L7 ANSWER 84 OF 109 C ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5223382	A	19930629	US 1992-983701	19921201
<				
JP 05150401	A	19930618	JP 1991-318201	19911202
<				
JP 2648992	B2	19970903		
PRIORITY APPLN. INFO	).:		JP 1991-318201 A	19911202
<				

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

The title material comprises  $\geq 1$  hydrophilic colloidal layer containing a dye I [Z = atoms necessary to form 5- or 6-membered N-containing heterocyclyl ring, R1-R5 = H, monovalent group, R3-R4 and/or R4-R5 may combine to form ring, R6 = alkyl aryl alkenyl, L1-L4 = methine group; 1 AB

anion; m = 1-2; n = 0, 1; p = 0, 0.5, 1;]. The dye can be quickly decolored during development and can provide images with excellent sharpness and less residual color. 153411-13-3 153411-13-5

FL: USES (Uses) (photog films containing) 153411-13-3 CAPLUS 3H-Indolium, 5-carboxy-2-[2-[7-(dimethylamino)-2-oxo-2H-1-benzopyran-3-ylethenyl]-3,7-3-dimethyl-1-[2-((methylsulfonyl)amino]-2-oxoethyl]-, hexafluorophosphate(1-) (1:1) (CA INDEX NAME)

CRN 153411-12-2

L7 ANSWER 84 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN CMF C27 H28 N3 O7 S (Continued)

CM

CRN 16919-18-9 CMF F6 P CCI CCS

153411-15-5 CAPLUS
3H-Indolium, 2-[2-[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-y1]ethenyl]-3,3-dimethyl-1-[2-[(methylsulfonyl)amino]-2-oxoethyl]-,
1,1,1-trifluoromethanesulfonate (1:1) (CA INDEX NAME)

CM 1

CRN 153411-14-4 CMF C28 H32 N3 O5 S

L7 ANSWER 84 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

CM

37181-39-8 C F3 O3 S

OS.CITING REF COUNT: RECORD

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

(1 CITINGS) THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

ANSWER 85 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

1994:65779 CAPLUS

120:65779 CAPLUS

120:65779 CAPLUS

120:65779 CAPLUS

120:1701a, 11704a

Green sensitizing dyes for variable contrast
photographic elements

Price, Harry J.; Gilman, Paul B.; Dobles, Thomas R.;

Knapp, Linda J.

ENT ASSIGNEE(S):

ENT ASSIGNEE(S):

ENT ASSIGNEE(S):

ENT ENT ASSIGNEE(S):

ENT ENT ASSIGNEE(S):

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ENT ENTER ENTER

ENT ENTER ENTER

ENT ENT ENTER ENTER

ENT INFORMATION: L/ ANSWER SO OF 109 C ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND APPLICATION NO. A1 EP 536771 19930414 EP 1992-117281 19921009

EP 536771 B1 19990113 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE US 5219723 Α 19930615 US 1991-774440 JP 05216153 Α 19930827 JP 1992-271982 PRIORITY APPLN. INFO.: US 1991-774440 A 19911010 <-ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 120:65779</pre> OTHER SOURCE(S):

A variable-contrast photog. material, with reduced photosensitivity at wavelengths longer than 570 mm, thereby enhancing safe light tolerance, while still maintaining good spectral sensitivity at wavelengths in the green region, comprises a photosensitive Ag halide emulsion layer sensitized with a green-sensitivity benzimidazoloowacarbocyanine dye of the general formula I (R1,R2,R6,R7 = H, halogen, OH, alkyl, alkenyl, alkony, alkylamino, aryl, alkylthio, aryloxy, ary AB

a counterion as needed to balance the charge of the dye mol.).
152085-93-3
RL: USES (Uses)
(green, benzentosylyloxocarbocyanide dyes as, for variable-contrast photog. materials with good safe light property)
152085-93-3 CAPLUS
Benzoxazolium, 2-[3-[1-ethyl-1,3-dihydro-3-[2-[(methylsulfonyl)amino]-2-

oxoethyl]-5-(trifluoromethyl)-2H-benzimidazol-2-ylidenel-1-propen-1-ull-5-

ANSWER 85 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Contphenyl-3-(2,2,2-trifluoroethyl)-, inner salt (CA INDEX NAME) (Continued)

ANSWER 86 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1994:568 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 120:568 120:38a.138a

120:135a,139a Rhodacyanine compounds as neoplasm inhibitors Shishido, Tadao; Chen, Lan Bo Fuji Photo Film Co., Ltd., Japan; Dana-Farber Cancer Institute Jpn. Kokai Tokkyo Koho, 174 pp. CODEN: JKXXAF TITLE: INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE.

DOCUMENT TYPE:

Patent Japanese FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 05117148 19930514 JP 1992-104724 19920423 US 5861424 19990119 03-1995-478582 19950607 US 1991-692347 PRIORITY APPLN. INFO.: 19910426 B1 19921112 US 1992-974480

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 120:568

Rhodacyanine compds. (I) [X2, X3, Y1 = 0, S or Se; Z1 = atom for forming rings; Z2 = atom for forming (un)substituted naphthaline, anthracene, phenanthrene; R1, R3 = (un)substituted alkyl; R2 = (un)substituted alkyl, aryl, or heterocyclic; L1-3 = (un)substituted methylene; Q- = pharmaceutically acceptable anion; n = 0 or 1; l = 1 or 2] are neoplasm

ANSWER 86 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN inhibitors. II was prepd. by treating (Continued)

5-[(1-ethyl-2(1H)-1,2-dihydroquinolinylidene)ethylidene]-2-methylmercapto-4-thiazolone etho-p-toluenesulfonate with 1-ethyl-4-methylquinolinium p-toluenesulfonate. II inhibited the growth of human colon cancer cell line CX-1 in cultures. The IC50 value was 0.1 μg/mL.

03/27/2010

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); THU (Therapeutic use); BIOL (Biological study); HSES

(Uses)
(antitumor activity of)

149258-43-5 CAPLUS
Benzothiazolium, 5-chloro-2-[[3-ethyl-5-[2-(3-ethyl-2-thiazolidinylidene]ethylidene]-4-oxo-2-thiazolidinylidene]methyl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)

OS.CITING REF COUNT:

Br-

THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

ANSWER 87 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1993:591854 CAPLUS
MENT NUMBER: 119:3191854
IIP3191854
II ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	re Tarr	DATE	APPLICATION NO		D. 2. M. M.
	PATENT NO.	KIND	DAIL	APPLICATION NO	•	DATE
	EP 534283	A2	19930331	EP 1992-115755		19920915
<						
	EP 534283	A3	19930630			
	EP 534283	B1	19971217			
	R: DE, FR, GB					
	JP 05080447	A	19930402	JP 1991-243128		19910924
<						
	JP 2794232 JP 05173276	B2 A	19980903 19930713	JP 1991-310220		19911030
<	JP U51/32/6	A	19930/13	JP 1991-310220		19911030
<	JP 05127291	A	19930525	JP 1991-311382		19911031
<	0F 03127291	Α.	19930323	OF 1991-311302		19911031
-	JP 05127293	A	19930525	JP 1991-318507		19911106
<						
	US 5290676	A	19940301	US 1992-944314		19920914
<						
PRIO	RITY APPLN. INFO.:			JP 1991-243128	A	19910924
<						
				JP 1991-310220	A	19911030
<						
<				JP 1991-311382	A	19911031
<				JP 1991-318507	A	19911106
<				OF 1991-31030)	A	12211100
	GNMENT HISTORY FOR I	IS PATEI	OT AVAILABLE	TN LSHS DISPLAY	FORMAT	

OTHER SOURCE(S): MARPAT 119:191854

$$\mathbf{z}^{1}_{\mathbf{R}^{1}-\mathbf{N}(\mathtt{CH};\mathtt{CH})}\mathbf{p}^{-\mathtt{C}=\mathtt{L}^{1}-(\mathtt{L}^{2};\mathtt{L}^{3})_{m}-\mathtt{C}:(\mathtt{CHCH})_{\mathbf{q}};\mathtt{N}^{\pm}\mathtt{R}^{2}}\mathbf{z}^{2}$$

The title material contains  $\geq 1$  Ag halide emulsion spectrally sensitized with the methine dye I [R = (CH)rCONHSOR or (CH)sSONHCOR where R and R are alkyl and r and s = 1-5; R = sulfoalkyl; Z, Z = nonmetal

required to form ring; p, q = 0, 1; L-L =methine; m = 1-2] 1 of which is added at 50 at any step from the step of preparing the emulsion to the

ANSWER 87 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) of coating. The material has excellent sensitivity/graininess ratio, storage stability, and color stability after development. 148350-04-3P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, photog. sensitizer from) 148350-043 CAPLUS Benzothia tolium, 5-chloro-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl] bromide (1:1) (CA INDEX NAME)

IT

•

148364-86-7P 149702-97-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prefaration and use of, as photog. sensitizer)
(148364-86-7 CAPLUS
Benzoth\[azolium, 5-chloro-2-[2-[[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-bnzothiazolylidene]methyl]-1-buten-1-yl]-3-[2[(methy\[azolium, 5-chloro-2-[2-[(methy\[azolium, 5-(methy\[azolium, 5-(methy\[

14970 -97-6 CAPLUS Benzo hiazolium, chloro-2 [3-[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-

benzothiazblylidene]-2-methyl-1-propen-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ANSWER 88 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1993:482794 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 119:82794 119:14667a,14670a TITLE: INVENTOR(S): Masaki PATENT ASSIGNEE(S): Silver halide color photographic material Ikegawa, Akihiko; Kuramitsu, Masayuki; Okazaki, Fuji Photo Film Co., Ltd., Japan Eur. Pat. Appl., 130 pp. CODEN: EPXXDW Patent DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<	EP 530511	A1	19930310	EP 1992-113135	19920731
\	EP 530511 R: DE, GB, NL	B1	19980603		
<	JP 05093978	A	19930416	JP 1992-23324	19920114
\	JP 2829452	В2	19981125	TD 1000 07400	10000114
<	JP 05188516	A	19930730	JP 1992-23422	19920114
	JP 2779722 US 5422238	B2 A	19980723 19950606	US 1993-165540	19931213
<	RITY APPLN. INFO.:			JP 1991-216472 A	19910802
<				JP 1992-23324 A	19920114
<				JP 1992-23422 A	19920114
<				US 1992-922221 E	19920731
<					

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 119:82794 OTHER SOURCE(S): GI

A Ag halide color photog. material showing improved sensitivity and reduced residual color formation during development contains  $\geq 1$  methine compound represented by the formula I [R1 = (CH2)/COMMSO2R3, (CH2)sSO2NHSO2R4, (CH2)tCONHCO2R, or (CH2)uSO2NHSO2R6 where R3-6 = alky1, alkoxy, or amino; r, s, t, u = an integer of 1-5; R2 = same as R1 or alky1; Z1, Z2 = a nonmetallic atomic group required to form a 5- or

- ANSWER 88 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
  6-membered heterocyclic group; p,q = 0 or 1; L1-3 = a methine group; m = 0, 1, or 2; X = an anion; k = an integer required to adjust the charge in the mol. to 0].
  148364-36-7
  RL: TEM (Technical or engineered material use); USES (Uses)
  (photog. sensitizer)
  148364-36-7 CAPLUS
  Benzothiazolium, 5-chloro-2-[2-[[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-benzothiazolylidene]methyl]-1-buten-1-yl]-3-[2[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

Me-s-NH-C-CH2-N CH=-C-CH	
-03S- (MH <sub>2</sub> ) 4 0	

- 148350-04-3P
  RL: RCT (Reactant); SPN (synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, in preparing photog. sensitizer) 148350-04-3 CAPLUS Benzothiazolium, 5-chaoro-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME) IT

- ANSWER 89 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
  SSION NUMBER: 1993:112880 CAPLUS
  MENT NUMBER: 118:112880
  INAL REFERENCE NO.: 118:19509a, 19512a
  E: Benzimidazolocarbocyanine photographic sensitivity ACCESSION NUMBER:
  DOCUMENT NUMBER:
  ORIGINAL REFERENCE NO.:
  TITLE:

- dye INVENTOR(S): Anderson, Richard B.; Dickerson, Robert E.; Link, Steven G.; Macon, Fred M.; Weber, Wayne W. Ii Eastman Kodak Co., USA Eur. Pat. Appl., 14 pp. CODEN: EPXXDW Fatent English 1 PATENT ASSIGNEE(S):

- DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<	EP 506077	A1	19920930	EP 1992-105300	19920327
	EP 506077 R: AT, BE, CH,	B1 DE, DK	19970604 , ES, FR, GB	, IT, LI, NL, SE	
<	US 5210014	A	19930511	US 1991-676913	19910328
	CA 2062570	A1	19920929	CA 1992-2062570	19920310
	JP 05088293	A	19930409	JP 1992-70815	19920327
<	AT 154142	T	19970615	AT 1992-105300	19920327
	RITY APPLN. INFO.:			US 1991-676913	A 19910328

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 118:112880

- A benzimidazolocarbocyanine photog, sensitizing dye that aggregates and sensitizes efficiently in the  $540-555-\mathrm{nm}$  spectral region and leaves a
- low level of residual dye stains in photog, materials after processing is represented by the general formula I [R1, R3 = Me or Et, with ≥1 of R1 and R3 being Me; R2, R4 = (substituted) C1-6 alkyl, with R2 and R4 being not both Me; R5-8 B, Me, methylthio, or F-substituted Me or methylthio, with ≥1 of R5 and R6 and ≥1 of R7 and R8 being not B; X- = anion as needed to balance the charge of the dye mol.]. R1: USES (Uses)

  (mid-green photog, spectral sensitizer)
  145300-28-3 CAPLUS
  1H-Benzimidazolium, 2-[3-[1,3-dihydro-1-methyl-3-[2-

L7 ANSWER 89 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

[(methylsulfonyl)amino]-2-oxoethyl]-5-(trifluoromethyl)-2H-benzimidazol-2-ylidene]-1-propen-1-yl]-1-methyl-3-(2,2,2-trifluoroethyl)-5-(trifluoromethyl)- (CA INDEX NAME)

ANSWER 90 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

AB Title compds. (I; R = H, OH, halo, alkyl, aryl, etc.; R1 = halo, OH, alkyl, aryl, etc.; R2 = cycloalkyl, -alkenyl; R3 = OH, alkoxy, OPh, arylaulfonylamino, etc.; n = 1-6) were prepared Thus,

3,4-7(H)CGHSCH2CO2

was esterified and the product condensed with 2-chloromethylquinoline to give, after alkylation with cyclopentyl bromide, 3,4-R1(R4O)CGH3CHR2CO2Me (R2 = cyclopentyl, R4 = 2-quinolylmethyl) (II; R1 = F). II (R1 = CH:CH2) had IC50 of 0.56 µM for inhibition of 5-lipoxygenase in vitro.

IT 145043-26-1

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation and reaction of, in preparation of lipoxygenase inhibitors)

inhibitors;
RN 145043-26-1 CAPLUS
CN Benzeneacetamide, 3-ethyl-N-(methylsulfonyl)-4-(2-quinolinylmethoxy)-INDEX NAME)

145042-99-5P 145043-00-1P 145043-05-6P 140043-05-0F
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of lipoxygenase

inhibitors:
RN 145042-99-5 CAPLUS
CN Benzeneacetamide, 3-fluoro-N-(methylsulfonyl)-4-(2-quinolinylmethoxy)(CA INDEX NAME)

RN 145043-00-1 CAPLUS

ANSWER 90 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1993:38772 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 118:38772 118:7063a,7066a TITLE:

INVENTOR(S):

118:7063a,7066a
Preparation of
2-cycloalkyl-2-[(quinolylmethoxy)phenyl] acetates as
lipoxygenase inhibitors
Raddatz, Siegfried; Mohrs, Klaus Helmut; Matzke,
Michael; Fruchtmann, Romanis; Hatzelmann, Armin;
Kohlsdorfer, Christian; Mueller-Peddinghaus, Reiner;
Theisen-Popp, Pia
Bayer A.-G., Germany
Eur. Pat. Appl., 52 pp.
CODEN: EPXXDW
Patent
German
3

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

											PLICATION NO.		
		4999						19920826			1992-102156		19920210
<										-	1992 192100		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
								19960911		CT.	R, IT, LI, LU,	ATT TO	T CE
											1991-4105551		
	AIT	9210	542			A		19920827	Δ.	IT	1992-10542		19920129
:		2010				••		13320027			1992 10012		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		6415						19930923					
	AT	1426	23			Т		19960915	A	Т	1992-102156		19920210
	ES	2091	958			тз		19961116	E	S	1992-102156		19920210
	JP	0509:	2957			A		19930416	J	P	1992-69073		19920218
		1010	20			A		19960804	-		1992-101009		19920219
:	TT	TOTO	19			А		19960804	1	ь	1992-101009		19920213
	PL	1707	26			В1		19970131	P	L	1992-293534		19920219
	PL	1710:	26			B1		19970228	P	L	1992-314698		19920219
:	FТ	9200	732			A		19920823	F	т	1992-732		19920220
		2000	,			••		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	-	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
:	ZA	9201	268			A		19921125	Z	Α	1992-1268		19920221
	RU	2077	532			C1		19970420	R	U	1992-5010907		19920221
<	C7	2827:	>3			B6		19970917		7	1992-514		19920221
:						20				_			
PRIO	RITY	APP:	LN.	INFO	. :				D	E	1991-4105551	A	19910222
	R SC	URCE	(S):			MARP.	ΑТ	118:38772	>				

ANSWER 90 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) Benzeneacetamide, 3-fluoro-N-[(phenylmethyl)sulfonyl]-4-(2-quinolinylmethoxy)- (CA INDEX NAME)

 $145043-05-6 \quad \texttt{CAPLUS} \\ \texttt{Benzeneacetamide, 3-bromo-N-(methylsulfonyl)-4-(2-quinolinylmethoxy)-4-($ 

INDEX NAME)

OS.CITING REF COUNT: THERE ARE 3 CAPLUS RECORDS THAT CITE THIS (3 CITINGS)

ANSWER 91 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1992:402825 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 117:2825 117:591a,594a

Preparation of N-sulfonamides as herbicides Toyabe, Keiji; Yoshimura, Takumi; Masuda, Katsumi; Yoshida, Ryo Kumiai Kagaku Kogyo K. K., Japan; Ihara Chemical INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE .

K. K. Jpn. Kokai Tokkyo Koho, 14 pp. CODEN: JKXXAF

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 04054168 19920221 JP 1990-166271 19900625 PRIORITY APPLN. INFO.: JP 1990-166271 19900625

OTHER SOURCE(S): MARPAT 117:2825

AB Herbicides contain N-sulfonamides I [R = (halo)alkyl, (un)substituted Ph; Rl = H, alkyl, (halo)alkenyl, cycloalkyl, cycloalkenyl, cycloalkylalkyl, (un)substituted Ph; X, Y = alkyl, (halo)alkoxy, halo] or their salts as active ingredients. MeSO2NH2 was treated with NaH in DMF at room temperature

erature for 1 h, followed by treatment with 2-(4,6-dimethoxy-2-pyrimidiny1)-3-methylbutyrylimidazole (preparationgiven) at

room temperature for 1 h to give 76.8% I (R = Me, R1 = Me2CH, X = Y =

which, at 100 g/10 are, showed almost complete control of Echinochloa crus-galli oryzicola, Monochoria vaginalis, and Scirpus juncoides. Formulation examples are given. 140704-78-55P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide)

ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
TITLE:

ANSWER 92 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ISSION NUMBER: 1992:255642 CAPLUS

IMENT NUMBER: 116:255642

IF: 16:43554h,43355a

Preparation of Capture of Captu INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND DA	TE .	APPLICATION NO.	DATE
	WO 9201677	A1 19	920206	WO 1991-GB1152	19910712
<					
	W: AU, BR, CA,	CS, FI, H	U, JP, KR,	PL, SU, US	
	RW: AT, BE, CH,	DE, DK, E	S, FR, GB,	GR, IT, LU, NL,	SE
	AU 9180996	A 19	920218 .	AU 1991-80996	19910712
<					
	EP 539427	A1 19	930505	EP 1991-912894	19910712
<					
	R: AT, BE, CH,	DE, DK, E	S, FR, GB,	GR, IT, LI, LU,	NL, SE
	US 5317005	A 19	940531	US 1993-966169	19930119
<					
PRIO	RITY APPLN. INFO.:			GB 1990-15916	A 19900719
<					
				WO 1991-GB1152	A 19910712
<					

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): MARPAT 116:255642 OTHER SOURCE(S):

ACRIR2CONHSO2R [I, A = pyrimidinyl or triazinyl residue Q; R = amino, (un)substituted alkyl; R1 = (un)substituted (cyclo)alkyl, -Ph, -heterocyclyl; R2 = H, halo, alkyl; R3, R4 = H, alkyl, alkoy, NH2, (di)alkylamino, halo; X = CH, N] and their salts, were prepared, e.g., by condensation reaction of pyrimidines or triazines Q2 ( $\mathbb Z$  = leaving group) with acetamides R1R2CHCONHSO2R. Thus, 20 mL of 2.5 M n-BuLi in hexane

added at -70° under N to a stirred solution of 4.67 g
N-(methylsulfonyl)-2-(2-thienyl)acetamide in THF, the mixture was
stirred 2
h at room temperature, treated by 5.45 g

ANSWER 91 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN 140704-78-5 CAPLUS (Continued)

2-Pyrimidineacetamide, 4,6-dimethoxy-N-(methylsulfonyl)- (CA INDEX NAME)

$$\begin{picture}(20,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100$$

OS.CITING REF COUNT: THERE ARE 1 CAPLUS RECORDS THAT CITE THIS

(1 CITINGS)

ANSWER 92 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 4,6-dimethoxy-2-methylsulfonylpyrimidine, and stirred overnight at room temp. to give 1,8 g title compd. (I; A = 4,6-dimethoxypyrimidinyl, R =  $\frac{1}{2}$ 

R1 = 2-thienyl, R2 = H). The latter at 0.25 kg/ha preemergence gave 90-100% control of Veronica persica and 70-89% control of Stellaria

90-100% control of Veronica persica and 10-0-0-0 control of Media,
Galium aparine, and Polygonum lapathifolium. Approx. 32 I were prepd.

IT 140704-78-5P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and alkylation of, in preparation of herbicide)
RN 140704-78-5 CAPLUS
CN 2-Pyrimidineacetamide, 4,6-dimethoxy-N-(methylsulfonyl)- (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS

(2 CITINGS)
THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT:

FORMAT

ANSWER 93 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1991:535935 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 115:135935 115:23307a,23310a

TITLE:

Preparation of indole-, indene-, pyranoindole- and tetrahydrocarbazolealkanoic acid derivatives as inhibitors of phospholipase A2 and lipoxygenase Musser, John Henry; Kreft, Anthony Frank, III;

DATENT ASSIGNEE(S) .

INVENTOR(S):

Failli.

Amedeo Arturo; Demerson, Christopher Alexander; Shah, Uresh Shantilal; Nelson, James Albert American Home Products Corp., USA FCT Int. Appl., 83 pp. CODEN: PIXXD2 Patent English 3

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

				APPLICATION NO.	
				WO 1990-US6251	
<	WO 9106537 W: AU, BR, CA,	FI, HU	, JP, KR,	SU GB, GR, IT, LU, NL, SE	
				CA 1990-2070422	19901027
<	CA 2090042	A1	19910428	CA 1990-2090042	19901027
<	AU 9177404	A	19910531	AU 1991-77404	19901027
	AU 643996 EP 502106			EP 1991-900547	19901027
				GB, GR, IT, LI, LU, NL, S BR 1990-7790	
<	JP 05502222	T	19930422	JP 1991-500787	19901027
	HU 63407	A2	19930830	HU 1992-1383	19901027
<	FI 9201865	A	19920424	FI 1992-1865	19920424
PRIO	RITY APPLN. INFO.:			US 1989-428260 A	19891027
				US 1990-596134 A	19901011
<				CA 1990-2070422 A	19901027
<				WO 1990-US6251 A	19901027
< OTHE	R SOURCE(S):	MARPAT	115:13593	35	

L7 ANSWER 93 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

 $\label{eq:alkyl} A (CH2) nOB [I; A = C4-8 alkyl, PhOCH2CH2, PhOC6H4, Q, Q1; R1 = H, alkyl, Ph, C6H4CF3; R2 = H, alkyl; R1R2 = benzene; X = N, R3C, R3 = H, alkyl; Z = C4-8 alkyl; R1R2 = C4-8 alkyl; R1$ 

R3C:CR3, R3C:N, N:CR3, NR3, O, S; n=1, 2;  $B=substituted\ indanyl,\ substituted\ carbazolyl,\ substituted\ pyranoindolyl,\ etc.]\ and\ a salt\ thereof,\ are\ prepared\ I\ are\ useful\ as\ antiinflammatory\ agents\ and$ 

thereor, are prepared 1 and words.

Jewkotriene antagonistic activity. To a stirred suspension of NaH in DMF at 0° was added 5-hydroxy-2-methyl-1H-indole-3-acetic acid followed after 1 h by 2-(chloromethyl)quinoline. The reaction mixture allowed to warm at room temperature with stirring overnight and the pH adjusted to

warm at room temperature with stirring overnight and the ph adjusted 5 with

HCl to give the indoleacetic acid (II) which at 10 µM in vitro gave 478 inhibition of phospholipase A2 (PLA2) from semi-purified human platelet extract, and 30% of FLA2 from purified human synovialfluid.

IT 135872-84-3P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as lipoxygenase and phospholipase A2 inhibitor)

RN 135872-84-3 CAPLUS

CN 1H-Indole-3-acetamide, 1-[(4-chlorophenyl)methyl]-2-methyl-N-(phenylsulfonyl)-5-(2-quinolinylmethoxy)- (CA INDEX NAME)

L7 ANSWER 93 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

THERE ARE 22 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINOS)
THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE OS.CITING REF COUNT: 22 FORMAT

ANSWER 94 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ISSION NUMBER: 1990:459231 CAPLUS
IMENT NUMBER: 113:59231
ISSION NUMBER: 113:59231
ISSION NUMBER: 113:10301h, 10031a
Azinylacylsulfoonamides as herbicides and plant growth
regulators
Ort, Oswald; Willms, Lothar; Bauer, Klaus; Bieringer,
Hermann; Schulz, Arno
ENT ASSIGNEE(S): Gechaft A.-G., Germany
Gez. Offen., 121 pp.
CODEN: GWXKEX
Patent
SUAGE: GERMAN
GERMAN
GERMAN
INT INFORMATION: ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT:

		ENT NO.			KIND			PLICATION NO.		DATE
		3826230						1988-3826230		1988080
		0020200				13300200	22	1300 0020200		130000
	EΡ	353640			A2	19900207	EP	1989-113916		1989072
		353640				19910508				
		353640								
		353640			B1 B2					
E										
			, ве,	CH,		ES, FR, GB,				
_	ES	2070870			Т3	19950616	ES	1989-113916		198907
-										
_	DD	283915			A5	19901031	DD	1989-331307		198907
-										
Ţ	JS	5053072			A	19911001	US	1989-387531		198907
-										
1	ΙL	91164			A	19941128	IL	1989-91164		198907
-										
Ι	ΣK	8903773			A	19900203	DK	1989-3773		198908
-										
F	λU	8939144			A	19900208	AU	1989-39144		198908
-										
Z	ΔU	636299			B2	19930429				
2	AS	8905852			A	19900425	ZA	1989-5852		198908
_										
i i	TP	0228237	1		A	19901119	JP	1989-198114		198908
	TP	3117137			B2	20001211				
		55001			A2			1989-3924		198908
_ ^		00001				27720127	220	2303 0321		230300
	o To	8903885			A	19900220	DD	1989-3885		198908
- "	,,,	0,00000			11	13300320	DI	1707 3003		130300
	TC	5186736			7.	19970216	TTC	1991-728632		199107
-	,,,	3100730			Α.	19930210	0.5	1991-720032		199107
	m	APPLN.	TME				DE	1988-3826230	2	100000
	. 1 1	APPLN.	TME	· · ·			DE	1900-3020230	А	130000
-							TTC	1989-387531	3.7	100007
							US	1303-30/231	A.J	T2930 /

CASREACT 113:59231; MARPAT 113:59231

ANSWER 94 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

L(X)mSO2NRIC(W)(CR2R3)nA [I; R1 = H, alkyl, alkenyl, alkynyl; R2, R3 = H, alkyl, Ph; R4 = H, alkyl, haloalkyl, Ph; X = CHR2, O, NR4; W = O, S, NR4, NCR4; L = (substituted) Fh, naphthalinyl, furyl, thienyl, pyrazolyl, pyridyl; A = (substituted) triazinyl, cyclopentapyrimidinyl, furylpyrimidinyl, triazolyl triazinyl, etc.], were prepared Thus, a

furylpyrimidinyl, triazolyl triazinyl, etc.], were prepared Thus, a mixture of DCC, 4-dimethylaminopyridine, and 4,6-dimethoxypyrimidine-2-carboxylic acid (preparation given) in CH2Cl2 at 0-2° was treated with 2-MeO2CC6H4SOZNHZ to give pyrimidinylcarbonylsulfonamide II. II at 0.3 kg/ha preemergent gave complete control of Sinapsis alba and Chrysanthenum segetum.

IT 128276-45-9P
RL: SFN (Synthetic preparation); PREP (Preparation)
(preparation of, as herboide and plant growth regulator)
RN 128276-45-9 CAPLUS
CN Benzoic acid, 2-[[[[2-(4,6-dimethoxy-2-pyrimidinyl)acetyl]amino]sulfonyl]methyl]-, methyl ester (CA INDEX NAME)

128276-42-6P 128276-43-7P 128276-44-8P 128276-45-9P 128276-46-0P RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide and plant growth regulator) 128276-42-6 CAPLUS 2-Pyrimidineacetamide, N-[(2-chlorophenyl)sulfonyl]-4,6-dimethoxy- (CA INDEX NAME) 128276-42-6P IT 128276-43-7P 128276-44-8P

ANSWER 95 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ISSION NUMBER: 1990:178357 CAPLUS

INENT NUMBER: 112:378357

II2:378357

II2:30149a, 30152a

Preparation of [(halophenoxy)phenyl]alkanoates and analogs as herbicides

INTOR(S): Kirsten, Folf; Busse, Ulrich; Santel, Hans Joachim; Schmidt, Robert R., Strang, Harry

Bayer A.-G., Fed. Rep. Ger.

Ger. Offen., 43 pp.

CODEN: GWXXBX

Patent

SUAGE: GERMAN COUNT: 1

INT INFORMATION: ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	ENT NO			KIN					API	PLICATION NO.		DATE
	381276			A1		1989			DE	1988-3812768		1988041
EP	338306			A2		1989	1025		EP	1989-105791		1989040
DK	R: B 890181		н, р	E, ES,						., SE 1989-1811		1989041
BR	890179	6		A		1989	1128		BR	1989-1796		1989041
ZA	890273	6		A		1989	1227		ZA	1989-2736		1989041
JP	020064	23		A		19900	110		JP	1989-93303		1989041
HU	51101			A2		19900	1428		HU	1989-1864		1989041
AU	893307	9		A		1989	1019		AU	1989-33079		1989041
ITI	/ APPLN	. IN	FO.:						DE	1988-3812768	A	1988041
R SC	OURCE (S	):		MAR	PAT	112:	17835	57				

The title compds. (I; R1 = H, halo, cyano, CF3; R2, R4, R5 = H, halo; R3 halo, cyano, CF3, CF30, CF3802; X = halo; Y = halo, cyano, alkoxycarbonyl, etc.) were prepared as herbicides (no data). Thus, phenoxybenzyl bromide II (R = Br) was refluxed 12 h with NaCN in aqueous EtOH and the product stirred

ANSWER 96 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1982:464127 CAPLUS

97:64127 97:10599a,10602a

(Continued)

ANSWER 95 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN 12 h in Et2O-MeOH contg. HCl to give II (R = CO2Me). 126565-64-8P

126565-64-8P RR: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as herbicide) 126565-64-8 CAPLUS

Lauserea-G CAMUS
Benzeneacetamide, 2-chloro-5-[2,6-dichloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)- (CA INDEX NAME)

TITLE: contrast INVENTOR(S): PATENT ASSIGNEE(S): Gernert, Herbert; Burger, Theo Agfa-Gevaert A.-G., Fed. Rep. Ger. Ger. Offen., 35 pp. CODEN: GWXXBX DOCUMENT TYPE: LANGHAGE . FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE

Photographic recording material with variable

A1 19820401 DE 3028167 DE 1980-3028167 19800725 PRIORITY APPLN. INFO.: DE 1980-3028167 19800725

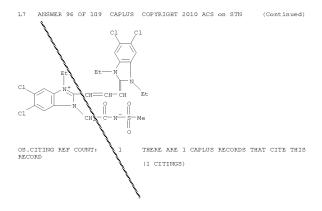
C-
A variable contrast photog, material is described which possesses high sensitivity for scanner exposure and shows a sufficiently steep gradation in the blue spectral region for use as a scan film along with a 50-100% flatter gradation in the green spectral region in comparison to the blue exposure. The material consists of a support with 2 emulsion layers, one of which is sensitive to blue and green light and the other which is sensitive to blue light. The exposure factor of the gradation curve for the blue sensitive layer lies in the region of its green sensitivity upon exposure of the material with light from 500 to 620 mm at a d. of 1.0-2.0 of the gradation for the green sensitivity. The material is especially useful in the production of color sense by capacity.

in the production of color sepns. by exposure with a scanner and exposure in a copy apparatus for a  $\gamma{-}\lambda{-}{\rm variable}$  material. 53132-00-6

ACCESSION NUMBER:

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

53i32-00-6
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. sensitizer, for variable contrast films for scanner exposure)
53i32-00-6 CAPLUS
1H-Benzimidazolium, 5,6-dichloro-2-[3-(5,6-dichloro-1,3-dicthyl-1,3-dihydro-2H-benzimidazol-2-ylidene)-1-propen-1-yl]-1-ethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)



ACCESSION NUMBER:

DRIGINAL REFERENCE NO.:

ANSWER 97 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1981:406959 CAPLUS
MENT NUMBER: 95:6959
WINAL REFERENCE NO.: 95:1314h,1315a
E: Chemical structure and antiinflammatory activity in the group of substituted indole-3-acetic acids
OR(S): Boltze, K. H.; Brendler, O.; Jacobi, H.; Opitz, W.; Raddatz, S.; Seidel, P. R.; Vollbrecht, D.
ORATE SOURCE: Abt. Chem. Forsch., Troponwerke G.m.b.H. and Co.
K.-G., Cologne, 5000/80, Fed. Rep. Ger.
Azzmeimittel-Forschung (1980), 30(8A), 1314-25 AUTHOR(S): CORPORATE SOURCE:

1314-25 CODEN: ARZNAD; ISSN: 0004-4172 Journal German CASREACT 95:6959

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

AB About 110 potential antiinflammatory compds. were prepared by systematically modifying indometacin (I; R = H) by modifying the α-methylene group, derivatizing the CO2H group, substituting the 4-ClC6H4CO moiety by ether aryl groups, introducing other substituents into the indole ring, and fusing other heterocycles to the indole ring. Of all these compds., acemetacin (I; R = CH2CO2H) showed .apprx.2 times the activity of I (R = H) in the kaolin-induced rat paw edema test. Further modification of acemetacin did not improve its activity. Apparently substitution of the indole nucleus and the acetoxyacetic acid side chain are responsible for the high activity.

76812-29-8P 76812-30-1P 76812-31-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
76812-29-8 CAPLUS
1H-Indole-3-acetamide, 1-(4-chlorobenzoyl)-5-methoxy-2-methyl-N(methylsulfonyl)- (CA INDEX NAME)

ANSWER 97 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

C1

C1

C1

CH2

NH

OSSO

Me

OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L7 ANSWER 98 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1976:464804 CAPLUS
OCCUMENT NUMBER: 85:64804
CRIGHNAL REFERENCE NO: 85:10427a,10430a
TITLE: Methine dyes
INVENTOR(S): Libeer, Marcel J.; Depoorter, Henri; Van Mierlo,
Gerrit G.; Lemahieu, Raymond G.
Agfa-Gevaert N. V., Belg.
CODER: USX.XAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.  US 3931156	KIND  A	DATE  19760106	APPLICATION NO. US 1973-355770	-	DATE  19730430
PRIORITY APPLN. INFO.:			GB 1961-19269	Α	19610529
<			US 1962-197925	АЗ	19620528
<			US 1966-547140	A1	19660202

CHCH=CH—N Et I

S
CH=CH
N
Et
EtN

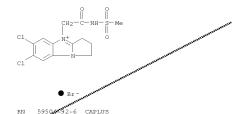
N
Et
I

N
E

AB One hyperred thirty-four cyanine dyes containing the pyrrolobedizimidazole, benzimidazole, benzimidazoloisoquinoline, and dipyridinolbenzodiimidazole nuclei were prepared and their photosensitizing properties determined in Ag halide emulsions.

L7 ANSWER 98 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
The syntheses of the heterocyclic nuclei and the cyanine dyes derived
them were given. Representative dye structure are: I [59506-84-2], II
[59506-85-3], and III [59506-86-4].

IT 59504-84-6P 59504-92-6P 59504-99-3P
S1: IMF (Industrial manufacture); PREP (Preparation)
(preparation and cyanine dye manufacture from)
RN 59504-84-6 CAPLUS
CN 1H-Pyrrolo[1,2-a]benzimidazolium, 6,7-dichloro-2,3-dihydro-4-[2[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)



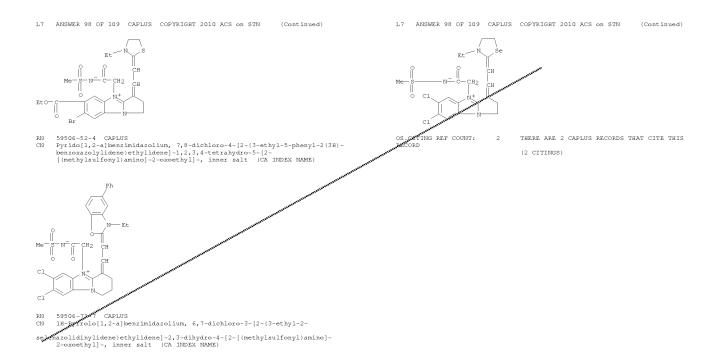
AN 393[m-32-6 CAPLUS

(N MF-Pyrrolo[1,2-a]benzimidazolium,

7-miloro-6-(ethoxycarbonyl)-2,3-dihydro4-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)

• Br-

RN 59504-99-3 CAPLUS
CN 1H-Pyrrolo[1,2-a]benzimidazolium,
7-bromo-6-(ethoxycarbonyl)-2,3-dihydro-4[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)



(Continued)

L7 ANSWER 99 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ANSWER 99 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1974:444048 CAPLUS ACCESSION NUMBER:

ORIGINAL REFERENCE NO.: 81:4978, 7000a

TITLE: Influence of the habit of silver halide crystals on the absorption spectra of adsorbed sensitizing dyes.

AUTHOR(S): Influence of the habit of silver halide crystals on the absorption spectra of adsorbed sensitizing dyes.

TIT. Silver chloride emulsions

Vanassche, W.; Claes, F. H.; Borginon, H.; Libeer, J.

CORPORATE SOURCE: Photogr. Sensitivity, Proc. Symp. (1973),

Meeting Date 1972, 265-81. Editor(s): Cox, R. J.

Academic: London, Engl.

CODEN: 28NDAO

Conference

LANGUAGE: English

AB A new crystallog, form, the (100) habit, of AgCl was prepared The absorption spectra of sensitizing dyes adsorbed on AgCl crystals with different crystallog, habits in photog. emulsions are affected by the crystal shape. Unlike AgPr, the cubic habit of AgCl indues

J-aggregation. The J-band is weakened or disappears when the dye is adsorbed on oathedral or dodecahedral crystals. An explanation for this J-aggregation was previously proposed for the absorption spectrum of dyes adsorbed on AgCl and AgBr differ in the intensity of hydration of the halide ion, and the signs of the space charge layers are opposed. The [110] and [111] crystals of AgCl induce M-or D-absorption maximum

IT 53132-00-6

RL: USES (Uses)

(absorption spectra of sorbed photog. sensitizer.

(absorption spectra of sorbed photog, sensitizer, silver halide crystal  $_{\rm cr}$ 

habit effect on)
53132-00-6 CAPLUS
1H-Benzimidazolium, 5,6-dichloro-2-[3-(5,6-dichloro-1,3-diethyl-1,3dihydro-2H-benzimidazol-2-ylidene)-1-propen-1-yl]-1-ethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ANSWER 100 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1971:525057 CAPLUS
MENT NUMBER: 75:125057
INAL REFERENCE NO: 75:19749a,19752a
E: Photosensitive copying materials containing diazo L7 ANSWER 100 OF 109
ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
TITLE:
dyes
INVENTOR(S):

Poot, Albert L.; Depoorter, Henri Agfa-Gevaert A.-G. Ger. Offen., 16 pp. CODEN: GWXXBX Patent Grman 1 PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT N		DATE	APPLICATION NO.		DATE
DE 20591	92 A	19710609	DE 1970-2059192		19701202
< CA 96821	1 A1	19750527	CA 1970-98246		19701116
< FR 20726	85 A5	19710924	FR 1970-43073		19701130
< JP 48041	202 в	19731205	JP 1970-105761		19701130
< CH 56998	6 A5	19751128	CH 1970-17563		19701130
< US 36761	.38 A	19720711	US 1970-94574		19701202
< NL 70176	85 A	19710607	NL 1970-17685		19701203
< PRIORITY APPL	N. INFO.:		GB 1969-59093	A	19691203
<					

For diagram(s), see printed CA Issue. Photosensitive copying materials were prepared in which an image was

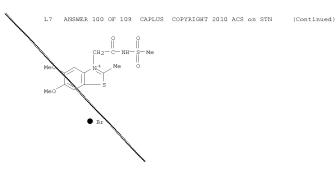
rormed by coupling, in alkaline medium, a diazonium compound and a quaternary salt of

of structure I or II, where R is a substituted or unsubstituted aliphatic or cycloaliphatic group, n = 1 or 2, and X- is an anion. For example, a mixture of p-(diethylamino) benzenediazonium tetrafluoroborate 6, 2-methyl-3-[[(methylsulfonyl)carbamoyl]methyl]-5,6-dimethoxy-benzothiazolium bromide (I,R = CHZCOMNSOZME, X = Br) 8, citric acid 40, tri-Na naphthalenetrisulfonate (III) 8, urea 20, silica 1, and saponin

g, and 56 ml 25% aqueous III was diluted with H2O to 400 ml, coated on a paper

er support, and dried. A black image with colorless background was formed when the coated paper was exposed through a diapos. and developed with NH3.

NH3:
34238-95-4
RL: USES (Uses)
(diazo process coupler)
34238-95-4 CAPLUS
Benzothiazolium, 5,6-dimethoxy-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)



ANSWER 101 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1971:498443 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 75:98443 75:15561a.15564a 75:15561a,15564a
Indole-3-acetic acid derivatives as muscle stimulants
Rooney, Clarence S.; Gleason, Clarence H.
Merck Sharp and Dohme (I.A.) Corp.
Ger. Offen., 59 pp.
CODEN: GWXXBX
Patent
German TITLE: PATENT ASSIGNEE(S): DOCUMENT TYPE. LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2062017	A	19710812	DE 1970-2062017	
< CA 903210	A	19720620	CA 1970-73875	19700203
< US 3758500	A	19730911	US 1970-92210	19701123
< ZA 7007949	A	19720726	ZA 1970-7949	19701124
< NL 7017488	A	19710805	NL 1970-17488	19701130
< FR 2081481	A5	19711203	FR 1970-43350	19701202
< FR 2081481 GB 1291657	B1 A	19740322 19721004	GB 1970-1291657	19701202
< SE 372266	В	19741216	SE 1970-16301	19701202
< IL 35771	A	19741231	IL 1970-35771	19701202
< DK 129993	В	19741209	DK 1970-6190	19701204
< HU 162286	В	19730129	HU 1970-ME1302	19701210
< JP 48029224	В	19730908	JP 1970-121852	19701229
< US 3833608	A	19740903	US 1972-289511	19720915
< PRIORITY APPLN. INFO.:			CA 1970-73875	A 19700203
<			US 1970-92210	A3 19701123
<				

For diagram(s), see printed CA Issue. The title compds: (I, R = Pr, Bu, or CH2CH2Cl; RI = CO2H, CONHSO2NMe2, CONHSO2N, CONHSO2N, CONHSO2N, SO(:NH) Me, or CONHAC;

R2 = H or Me), useful as muscle stimulants and for treatment of myasthenia gravis, were prepared. Thus, reaction of BuCOCl with 2,4-Me2C6H3NH2 gave

amide, which on reaction with NaNH2 gave 2-buty1-3-methylindole (II).

ANSWER 101 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) the Reaction of II with HCHO/Me2NB gave I (R = Bu, R1 = NMe2, R2 = Me), the MeI salt of which reacted with KCN to give I (R = Bu, R1 = CN, R2 = Me) (III). Reaction of III with KOH in H2O-EtOH gave I (R = Bu, R1 = CO2H,

= Me). Also prepd. were 9 other I. 33414-10-7P RI: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 33414-10-7 CAPLUS

1H-Indole-3-acetamide, 5-methyl-N-(methylsulfonyl)-2-propyl- (CA INDEX NAME)

OS.CITING REF COUNT: RECORD THERE ARE 1 CAPLUS RECORDS THAT CITE THIS (1 CITINGS)

ANSWER 102 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

SSION NUMBER: 1970:95344 CAPLUS

72:95344
INDAL REFERENCE NO.: 72:173253,17328a

E: Sensitized zinc oxide photoconductor compositions

NTOR(S): Verhille, Karel E.; Noe, Robert J.; Voet, Luciaan

Depoorter, Henri

OCDEN: FEXXAK

MENT TYPE: Patent

ASSIGNEE (S): CAPLUS CAPLUS COPYRIGHT 2010 ACS ON STN

1970:1974 CAPLUS COPYRIGHT 2010 ACS ON STN

Verhille, Karel E.; Noe, Robert J.; Voet, Luciaan

Depoorter, Henri

CCDEN: FEXXAK

MENT TYPE: Patent L/ ANSWER 102 OF 109
ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
TITLE: INVENTOR(S): PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent French

PALENT NO	J. KIND	DAIL	APPLICATION NO.	DAIL
FR 156097	76	19690321	FR	19680424
<				
GB 119906	52		GB	
US 361726	59	19711102	US	19680426
<				
PRIORITY APPLY	N. INFO.:		GB	19670426
<				
GI For diagr	ram(s), see print	ed CA Issue.		
AB Carbocyar	nines I, where n	is 0 and 1 (X	is Br and I), are ad	ded to
			solution andthe compn	

parchment paper to give layers 3-10  $\mu$  thick. The ZnO-binder weight ratio

is 1:0.1-1:0.6, the amount of I added is 0.0-Img/g ZnO, and the coating compns.contain 95-60 weight% ZnO. Thus, a dispersion prepared from 20 g ZnO.

25 ml H2O, and 1 ml 10% maleic anhydride-1-vinylpyrrolidone copolymer

NH3-water) is added to a solution of 2 g vinyl acetate-crotoric acid copolymer and 1.25 ml melamine-formaldehyde resin in 25 ml water and 1 ml 25% NH3,, and a 0.1% solution of I [R =r1 = 0.R2 =CH2CONHSO2Me,, R3 =  $^{\circ}$ 

.5 = R7 = PhCH2, R4 = R6 = R8 = H, n = 1 (X= I] is added at 0.5mg/g ZnO. The composition is coated on a baryta paper to give 25 g ZnO/m2, charged (-7000

y), irradiated for 15 sec (2240 lux, 2750°K), and developed. The sensitivity is more than double that of a standard photoconducto:

Also used are sM40 addnl. tA, where R and R1,R2 and R3, and R5 and R7

the same or different, R and Rl are O, S, Se, and NEt, R2 and R3 are Et, (CH2)nSO2NHAc and (CHnSO2N-Ac, CH2CONHSO2Me, CH2CON-SO2Me, and (CH2)3-COSJ-, R4 and R6 are H and Me, R5 and R7 are PHCH2, PH, Me, and CMe, and R8 is H or a Cl-3 alkyl group.
27276-62-6 27570-44-1
RL: TEM (Technical or engineered material use); USES (Uses)
(zinc oxide photoconductor sensitized by, for electrophotography)
27276-62-6 CAPLUS
Benzothiazolium, 2-(3-(3-ethyl-6-methyl-2(3H)-benzothiazolylidene)-2-methyl-1-propen-1-yl-6-methyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

ANSWER 102 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

(Continued)

(Continued)

L7 ANSWER 103 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ANSWER 103 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1969:466036 CAPLUS DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 71:66036 71:12197a,12200a Red sensitive silver halide films Goetze, Johannes; Riester, Oskar; Philippaerts, TITLE: INVENTOR (S): A.; Ghys, Theofiel H.; Hase, Marie; Kueffner, Karl Gevaert-Agfa N. V. Belg., 29 pp. CODEN: BEXXAL PATENT ASSIGNEE(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: KIND PATENT NO. DATE APPLICATION NO. DATE BE 713449 19681010 BF. DE 1547641 DE 1597474 FR 1559508 GB 1223191 US 3615634 19711026 PRIORITY APPLN. INFO.: DE For diagram(s), see printed CA Issue. A Ag(Br, I) emulsion containing 4.7 mole % AgI and 0.3 mole AgX/-kg. emulsion sion is sensitized with 20 mg. of a I-type dye and coated on cellulose acetate base. The film has no sensitivity in the blue and a Amaximum at 730 nm. 24687-41-0 RL: USES (Uses) (photographic sensitizer) 24687-41-0 CAPLUS 

CAPLUS COPYRIGHT 2010 ACS on STN 1966:68495 CAPLUS 64:68495 64:12857e-h,12858a-e Photographic methine dye sensitizers Gewaert-Agfa N. V. 30 pp. Patent Unavailable 1 ANSWER 104 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1966:68495 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: ORIGINAL REFERENCE NO.:
TITLE:
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. NL 6511017 19651025 NL 1965-11017 19650824 19640825 PRIORITY APPLN. INFO.: For diagram(s), see printed CA Issue. 2,3-Dimethyl-4-sulfamoylbenzothiazolium p-toluenesulfonate (4.15 g.) and 3.55 g. 2-(2-acetanilidovinyl)-3-ethylthiazolidinium bromide (I) in 2 EtoH refluxed 5 min. with 2.8 cc. Et3N yielded II (X = H, X1 = SO2NH2 R Me, R1 = Et, A = Br), m.  $> 260^{\circ}$  (PhOH),  $\lambda$ maximum 508 m $\mu$  (log  $\approx 5.15$ ) (the absorption maximum and log  $\approx$  values are given throughout this abstract in brackets and parentheses, resp.) Similarly were prepared II (X = H, Xl = AcNHSO2, R = Me, Rl = Et, A = Bt), m. >260° [508 (5.20)], and III (X = SO2N-Ac, R = Rl = Et), m. >270° [504 (5.10)]. 2-Methyl-3-[N-(methylsulfonyl)carbamoylmethyl]-7-sulfamoylbenzothiazolium bromide (6.2 g.) and 5 g. 1 in 75 cc. aqueous MeOCH2CH2OH, treated, with cooling, with 4 cc. Et3N and diluted with 100 cc. EtoH gave III (X = SO2NH2, R = MeSO2N-COCH2, R1 = Et), m. 220° (PhOH-EtoH), [502]. Similarly was prepared II (X = SO2NH2, X1 = H, R =

Et, A = Br) [501 (5.07)]. 2,3-Dimethyl-7- (methylsulfonamido)benzothiazolium Me sulfate (IV) (3.7 g.), 3.55 g. I,

cc. EtOH, and 2.8 cc. Et3N shaken 0.5 hr. at room temperature gave III

 $\label{eq:MeSo2N-Resolve} $$ MeSo2N-, R = Me, R1 = Et), m. 276-8° (1:1 EtoH-H2O) [506 (4.96)]. $$ Similarly was prepared V (X = MeSo2N-, R1 = R4 = R5= Me, R3 = H, Z = O, $$ $$ And $$$ 

Et), m. 281-2° [530(5.16)]. IV (7.6 g.), 7.6 g. HC(OEt)3, and 50 cc. Ac2O refluxed 20 min. gave VI[X = X1 = Ac(MeSO2)N, R1 = R2 = Me, R3 = R4 = R5 = H, Z = S, A = MeSO4], m. 278-81° (diacetone alc.-EtOH-H2O) [566 (4.82)]. 3-Ethyl-2-methyl-7-sulfamoylbenzothiazolium p-toluenesulfonate (4.3 g.) and 3.6 g. 2-(2-methyl-2-methyl-1-thiovinyl)-3-ethylbenzothiazolium sulfate in 60 cc. C5H5N refluxed 0.5 hr. with 1.4 cc. Et3N gave VI (X = SO2NH2, X1 = R4 =

= H, R1 = R2 = Et, R3 = Me, Z = S, A = MeSO4), m. 260° (PhOH) [547 (5.11)]. Similarly were prepared VI (X = SO2NH2, X1 = R4 = H, R1 = R2 =

R3 = Et, R5 = Ph, Z = S, A = MeSO4), m. >260° [551 (4.98)], V (X = AcN-SO2, R1 = R2 = Et, R3 = Me, R4 = R5 = H, Z = S), m. >270° [545 (4.94)], VII (X = MeSO2NH, A = MeSO4), m. 249-50° [568 (4.80)], VIII, m. 265-7° [582 (5.14)], VII (X = Me2NSO2NH, A = iodine), m.

R1 =

25

(X =

and 50 cc. EtcH refluxed 0.5 hrs. gave VI (X = MeSO2NH, XI = R3 = R4 = R5 = H, R1 = Me, R2 = Et, Z = S, A = iodine), m. 207-9° (2:1 diacetone alc.-H2C) [559 (5.12)].

2-(2-Anilidovinyl)-3-methyl-7-(methylsulfonamido)-benzothiazolium methylsulfate (4.7 g.), 1.6 g.

3-ethylthiazolidim-2-thion-4-one, 2.4 cc. Et3N, and 25 cc. Ac20 refluxed 15 min. gave IX (Z = S), m. 265° (diacetone alc.) [516 (4.53)]. Similarly were prepd. IX (Z = PNN), m. 275-8° [506 (4.39)], and X, m. 265° [4.92 (4.77)]. The sensitization max. of the various methine dyes in Agcl emulsions were detd. and are tabulated.

IT 5045-26-1P, Benzothiazolium,

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl]-7-sulfamoyl-, bromide RL: PREP (Preparation of)
RN 5045-26-1 CAPLUS
CN Benzothiazolium,
7-(aminosulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)

ANSWER 104 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 192° [569 (5.06)], V (X = AcN-SO2, R1 = R2 = Me, R3 = Et, R4 = H, R5 = Ph, Z = S), m. >270° [551 (4.80)]. 2,3-Dimethyl-7-(methylsulfonamido)benzothiazolium Me sulfate (3.68 g.), 4.5 g. 2-(2-acetanilidovinyl)-3-ethylbenzothiazolium iodide, 3.8 cc. 1.

10/541,429 03/27/2010

ANSWER 105 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1963:442230 CAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 59:42230 59:7692c-g Benzimidazole methine dyes Gevaert Photo-Producten N. 19 pp. Patent TITLE: PATENT ASSIGNEE(S): DOCUMENT TYPE: Unavailable LANGUAGE: PATENT INFORMATION: DATENT NO KIND DATE APPLICATION NO

	BE 61985	1		19621031	BE		
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	GB 98023	34			GB		
PRIOF	RITY APPI	N. INFO.:			GB		19610706
GI AB 2,	Benzimio		ne dyes	of the gener	al formula I,		
use	and Z is	a selenazo	line or	benzimidazol	le ring system	were prep	pared for
	(III) (6.120°, pc 1,3-diet 294-6°. 105° gau dibromok treated with Eth reduced to give 2-(2-Ace III in (	.5 g.) and 2 wdered, and thyl-2-methy II (6.5 g. re 1-ethyl-2 enzimidazol with HNO3 y HH2 gave ora to EtNHBr2C light brown stanilidovin C5H5N heated	.2 cc.: washed 1-5,6-d: ) and I' -methyl: ium bror ielded inge 4,5 6H2NH2, II, m. yl)-3-et 20 min	EtI heated 15 with Et20 yi biptomobenzimi 0.8 g. BrCH26 -3-[(methylsu 1.4.5-Br366H2 2.4.5-Br366H2 2.2-Br2(02N)06 m. 62-4°, ar 118-19°. thylselenazol at 140-50°	e-methyl-5,6-di hrs. in a sec- lelded 8.5 gc. dazolium iodiconnesozem ilfonyloarbamon 194°. 1,3,4- knO2 (V), m. 95 HENHEE, m. 12' id heated with linium iodide with 6 cc. Et- 3-ethylselenaz	aled tube  de (III), ed 48 hrs yl)methyl; -C6H3Br3 5° (EtOH), 7°, which HCl and J (6.73 g.) 3N, cooled	at m at ]-5,6- ; V was HOAc and 7.11 g.

DATE

diluted with ETZO precipitation.

1), m.

268%, Amaximum 472 mm (log & 5.049); it sensitizes a
AgclAgBr emulsion with a maximum at 515 mm. III (9.58 g.) and 7 cc.
ETCCH:CHCH(OEt)2 refluxed 5 min., cooled, and filtered gave I (2 =
1,3-diethyl-5,6-diblormobenzimidazolin-2-ylidene, n = 2); m. 148-51°
(MeOH and MeOCH2CH2OH). Amaximum 615 mm (log & 5.224),
sensitization maximum (Agcl) 650 mm.

1,3-Dimethyl-2-(methylthio)-5,6-dichlorobenzimidazolium methosulfate
(3.70

g.) and 4.70 g. III in 25 cc. PhNO2 refluxed 45 min. with 2.8 cc. Et3N and

and diluted with Et2O yielded I (Z = 1,3-dimethyl-5,6-dichlorobenzimidazolin-2-yildene, n = 0), m. 260-1° (Et0H) \( \lambda\) maximum 412 m\( \mu\) (log \( \epsilon\) 4.059), sensitization maximum (AgCl) 435 m\( \mu\). III (8.5 g.) in 70 cc. PhNO2 refluxed 40 min. with 9 cc. HC(OEt) 3, cooled, and diluted with Et2O precipitated I (Z = 1,3-diethyl-5,6-dibromobenzimidazolin-2-ylidene, n = 1),

L7 ANSWER 105 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

ANSWER 105 OF 109 CAPLUS COPYRIGHT 2010 ACS of STN (Continued) red needles, m. 264-6° (MeOCH2CH2OH-PhOH-EtOH) / Amax 518 mm (log & 5.30), sensitization max. (AgCl) 586 mm. IV (5.34 g.), 3.5 g. 2-(2-acetanilidovinyl)thiazolinimh bromide, 30 cc. C5H5N, and 1.7 cc. piperidine boiled 0.5 hr. and filteded gave VI, m. >250° (diacetone alc:), / Amax. 417 mm (log & 4.88 f.) sensitization max. (AgClAgBr) 510 mm / 96473-31-3P, 5.6-Dibromo-1-ethyl-2-methyl-3-[[(methylsulfonyl)carbamoyl]methyl]benylmidazolium bromide 100171-06-DP, 5.6-Dibromo-1-ethyl-2-[5-(3-ethyl-2-thiazolidinylidenelpropenyl]-3-[((methylsulfonyl)carbamoyl]methyl]benzimidazolium hydroxide, inner salt RL: PREP (Preparation) (preparation of) 96473-31-3 CAPLUS
IH-Benzimidazolium, 5.6-dibroms-1-ethyl-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxosthyl]-, bromide (1:1) (CA INDEX NAME) rum bromide, 30 cc. C5H5N, and ed gave VI, m. >250° CH2-ONE OR MORE AUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE 77-06-0 CAPLUS
%nzimidazolium, 5,6-dibromo-1-ethyl-2-[3-(3-ethyl-2zolidinylidene)-1-propen-1-yl]-3-[2-[(methylsulfonyl)amino]-2thyl]-, inner salt (CA INDEX NAME) RN CN 10017

сн==сн=сн

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

ANSWER 106 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN
SSION NUMBER: 1963:82273 CAPLUS
58:82273 CA ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.: INVENTOR(S): PATENT ASSIGNEE(S): PATENT ASSIGNABL(S): SOURCE: DOCUMENT TYPE: LANGUAGE: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	BE 595980		19610413	BE	
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	DE 1180241			DE	
	GB 955962			GB	
	GB 955964			GB	
	US 3264110		19660802	US 1964-341445	19640130
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	US 3268334		19660823	US 1964-341446	19640130
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	DRITY APPLN. INFO.:			GB	19511013
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AB The title compds. are obtained by known methods. The following new products were prepared: 1,3-diethyl-2-methyl-5-cyanobenzimidazolium iodide,

The title compds. are obtained by known methods. The following new products were prepared: 1,3-diethyl-2-methyl-5-cyanobenzimidazolium de,

m. 260°; 1-ethyl-2-methyl-3-(β-hydroxyethyl)-5cyanobenzimidazolium bromide, m. >250°;
1-ethyl-2-methyl-3-[(methylsulfonyl) carbamoyl]methyl]-5cyanobenzimidazolium betaine; 1-ethyl-2-methyl-3-(γ-sulfatopropyl)-5cyanobenzimidazolium betaine; 1-ethyl-2-methyl-3-[σ-sulfatopropyl)-5cyanobenzimidazolium betaine; 1-ethyl-2-methyl-3-[σ-sulfatopropyl)-5cyanobenzimidazolium bromide; 1-(β-acetoxyethyl)-2-methyl-3-(βhydroxyethyl)-5-cyanobenzimidazolium bromide, m. 202°;
cyanobenzimidazolium bromide; 1-(β-acetoxyethyl)-2-methyl-3-(βhydroxyethyl)-5-cyanobenzimidazolium bromide, m. 250°;
1-ethyl-2-methyl-3-(β-acetoxyethyl)-5cyanobenzimidazolium iodide, m. 260°;
1,3-diethyl-2-[β-(phenylimino) ethylidene]-5-cyanobenzimidazolium, m.
175° (C6f6-C6f14); 1,3-diethyl-2-[β-(p-toluenesulfonanilido)vinyl)-5-cyanobenzimidazolium chloride, m. 185°;
1,3-diethyl-2-methyl-5-fluoro-6-cyanobenzimidazolium iodide;
1,3-diethyl-2-methyl-5-fluoro-6-cyanobenzimidazolium iodide,
1,3-diethyl-2-methyl-5-fluorobenzimidazolium bromide, m. 198°;
1,3-diethyl-2-methyl-5-fluorobenzimidazolium bromide, m. 198°;
1,3-diethyl-2-(β-anilinovinyl)-5-fluorobenzimidazolium bromide, m. 228° (E0H); 1,3-diethyl-2-[β-(phenylimino) ethyliden-15chlorobenzimidazolium, m. 157°;
1,3-diethyl-2-[β-(phenylimino) ethyliden-15chlorobenzimidazolium holoride, m. 187°;
1,3-diethyl-2-[β-(phenylimino) ethyliden-15chlorobenzimidazolium choride, m. 187°;
1,3-diethyl-2-[β-(phenylimino) ethyliden-15chlorobenzimidazolium choride, m. 187°;
1,3-diethyl-2-[β-(phenylimino) ethyliden-15chlorobenzimidazolium choride, m. 187°;
1,3-diethyl-2-[β-(phenylimino) ethyliden-15-

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ANSWER 106 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) dichlorobenzimidazolium, iodide, m. 265°; 1,3-diethyl-2-[\beta-(phenylimino)ethylidene]-5,6-dichlorobenzimidazoline, m. 148° (C6f6-C6f14); 1,3-diethyl-2-[\beta-(p-toluenesulfonanilido)vinyl]-5,6-dichlorobenzimidazolium chloride, m. 228°. From these intermediates the following new dyes were prepd. (m.p., \lambdamax. in mµ, log e, Ag halide, sensitizing limit, sensitization max., and sensitivity to light above 510 mµ in terms which correspond to a sensitivity of 100 for the non-sensitized emulsions given):
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1,3-diethyl-2-[3-(1,3-di-ethyl-5-cyano-2-benzimidazolinytidene)propenyl]-5cyanobenzimidazolium iodide, 267° (EtOH), 514, 5.32, Ag(Br, I),
595, 585, 305; 1,3-diethyl-2-[13-(3-ethyl-5-phenyl]-2benzoxazolinylidene)propenyl]-5-cyanobenzimidazolium iodide, 178°
(EtOH), 493, 4.61, AgCl, 555, 535, 265 and Ag (Cl, Br), 580, 560, 250;

benzoxazolinylidene)propenyl]-5-cyanobenzimidazolium iodide, 178° (EtOH), 493, 4.61, AgCl, 555, 535, 265 and Ag (CL, Br.), 580, 560, 250;

1,3-diethyl-2-[3-(3-ethyl-5,6-dimethyl-2-benzoxazolinylidene)-propenyl]-5-cyanobenzimidazolium iodide, 248° (EtOH), 497, 5.07, AgCl, 570, 540, 255; 1,3-diethyl-2-[3-(3-ethyl-2-thiazolidinylidene)propenyl]-5-cyanobenzimidazolium iodide, 250° (EtOH), 472, 5.12, AgBr, 555, 525, 265; 1-ethyl-2-[3-(3-ethyl-2-thiazolidinylidene)propenyl]-3-(β-acetoxyethyl)-5-cyanobenzimidazolium bromide, 162° (EtOH), 470, 5.11, AgBr, 540, 520, 200; 1-ethyl-2[3-(3-ethyl-5-methyl-2-benzoxazolinylidene)-propenyl]-3-(β-acetoxyethyl)-5-cyanobenzimidazolium bromide, 140° (EtOH), 491, 5.15, Ag(Br, I), 575, 555, 230; 1-ethyl-2-[3-(3-ethyl-5,6-dimethyl-2-benzoxazolinylidene)-propenyl]-3-[((methylsulfonyl)carbamoyl]methyl] - 5-cyanobenzimidazolium betaine, 250° (MeoCH2CH2OH-EtOH), 498, 5.22, Ag(Cl, I), 580, 545, 215; 1-ethyl-2-(3-(3-ethyl-5,6-dimethyl-2-benzoxazolinylidene)-propenyl]-3-(y-sulfatopropyl)-5-cyanobenzimidazolium betaine, 250° (MeoCH2CHOH), 500, 5.16, Ag(Br, I), 590, 570, 230 and AgBr, 580, 545, 255; 1-ethyl-2-(3-(3-ethyl-5,6-dimethyl-2-benzoxazolinylidene)-propenyl]-3-(g-(acetylsulfamoyl)-propyl]-5-cyanobenzimidazolium betaine, 260° (EtOH, 500, 5.17, Ag(Br, I), 590, 570, 255 and AgBr, 580, 545, 275; 1-ethyl-2-(3-(3-ethyl-2-benzoxelenazolinylidene)-propenyl]-3-(y-sulfatopropyl)-5-cyanobenzimidazolium betaine, 260° (EtOH, 800, 5.17, Ag(Br, I), 590, 570, 255 and AgBr, 580, 545, 275; 1-ethyl-2-(3-(3-ethyl-2-benzothazolimylidene)-propenyl]-3-(y-sulfatopropyl)-5-cyanobenzimidazolium betaine, 260° (EtOH, 800, 5.17, Ag(Br, I), 590, 570, 255 and AgBr, 580, 545, 275; 1-ethyl-2-(3-(3-ethyl-2-benzothazolimylidene)-propenyl]-3-(methyl-2-la-dis-1-benzothazolimylidene)-propenyl-3-(p-dis-1-benzothazolimylidene)-propenyl-3-(p-dis-1-benzothazolimylidene)-propenyl-3-(p-dis-1-benzothazolimylidene)-propenyl-3-(p-dis-1-benzothazolimylidene)-propenyl-3-(p-dis-1-benzothazolimylidene)-propenyl-3-(p-dis-1-benzothazoli

3 - [ $\varpi$ -(acetylsulfamoyl)butyl]-5-cyanobenzimidazolium bromide, >250° (EtOH), 514, 5.38, AgBr, 605, 590, 270; 1-ethyl-2-(3-[1-ethyl-3-( $\beta$ -hydroxyethyl)-5-cyano-2-benzimidazolinylidene]propenyl]-3-( $\beta$ -hydroxyethyl)-5-cyanobenzimidazolium iodide, 180° (EtOH), 517, 5.31;

L7 ANSWER 106 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) benzoxazolinylidene)propenyl]-5-fluorobenzimidazolium iodide, 247° (EtcM), 476, 5.02, Agcl, 545, 525, 130; 1,3-diethyl-2-[3-(1,3-diethyl-5-[6.th)vlo-2-benzimidazolium)lidene)propenyll-5-fluorobenzimidazolium iodide, 260° (EtcM), 510, 5.31, Ag(Br. I), 600, 575, 330; 2-thio-3-ethyl-5-[(1,3-diethyl-5-cyano-2-benzimidazoliumlidene)-ethylidene]-2,4-thiazolidinedione, >250° (EtcM-C5H5N), 518, 5.08, Ag (Br. I), 625, 590, 295; 1-methyl-2-thio-3-ethyl-5-[(1,3-diethyl-5-cyano-2-benzimidazolimylidene)-ethyl-2-cyano-12-benzimidazolimylidene)-ethyl-16-(EtcM), 526, --, Agcl, 600, 550, 415, (total sensitivity); 4-(1,3-diethyl-5-cluoro-2-benzimidazolimylidene)-2-cyanobutyronitrile, 208° (EtcM), 419, 4-91, Agcl, 465, 450, 215 (total sensitivity); 2-thio-3-ethyl-5-[(1,3-diethyl-5-fluoro-2-benzimidazolimylidene)-2-cyanobutyronitrile, benzimidazolimylidene)-[-1,4-hidzolidinedione, 196° (EtcM), 514, 514, Agcl, 610, 550, 470 (total sensitivity). Belg. 615, 550.

1,3-dimethyl-2-[(1,3-diethyl-5-carbethoxy-2-benzimidazolinylidene)methyl]-5-fluorobenzimidazolium, perchlorate, 208° (EtOH), 402, 4.351, AgCl, 435, 475 (total); 1,3-dimethyl-2-[(1,3-diethyl-5-cyano-2-benzimidazoliuylidene)methy]-5-cyanobenzimidazolium iodide, >250° (EtOH), 404, 4.340, AgCl, 440, 795;

L7 ANSWER 106 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

1-ethyl-2-[3-[1-ethyl-3-(β-acetoxyethyl)-5-cyano-2benzimidazolinylidene]propenyl] -3-(β-acetoxyethyl)-5cyanobenzimidazolium bromide, 250° (EtCH), 514, 5.34, Ag (Cl, Br),
605, 585, 295; 1-(β-acetoxyethyl)-2-[3-(1,3-diethyl)-5-cyano-2benzimidazolinylidene]propenyl] -3-(β-hydroxyethyl) - 5cyanobenzimidazolium bromide, 188° (EtCH), 514, 5.32, Ag (Br, I),
605, 585, 305; 1,3-bis(β-acetoxyethyl)-2-[3-(1,3-diethyl)-5-cyano-2benzimidazolinylidene)propenyl] -5-cyanobenzimidazolium iodide,
201° (EtCH), 512, 5.28, --, --, --,
1,3-dethyl-2-[3-(3-ethyl)-2-thiazolidinylidene)propenyl]
-5-chloro-6-cyanobenzimidazolium iodide, 250° (EtCH-5H5N and
MeCCH2CH2CH), 479, 5.18, AgBr, 560, 540, 270;
1,3-diethyl-2-[3-(3-ethyl)-2-thiazolidinylidene)propenyl]
-5-fluoro-6-cyanobenzimidazolium iodide, 269° (EtCH, 472, 5.112,
AgCl, 475, 440, 195 (total sensitivity); 1,3-diethyl-2-[3(1,3-diethyl-5-chloro-2-benzimidazolinylidene)propenyl]-5cyanobenzimidazolium iodide, >250° (EtCH), 575, 5.33, AgBr, 605,
580, 340;
1-ethyl-2-[3-(3-ethyl-2-benzoxazolinylidene)propenyl]-3(Y-sulfatopropyl)-5-cyanobenzimidazolium betaine, >260°
(EtCH/Me2SO), 488, 5.06, AgCl, 555, 530, 210 and Ag(Cl, Br), 585, 565, 325;
1,3-diethyl-2-[(3-ethyl-2-benzoxazolinylidene)methyll-5cyanobenzimidazolium iodide, --, 388 (EtCH), --, --, --, --, --,
1-ethyl-2-[3-(3-ethyl-2-benzoxazolinylidene)propenyl]-3-(Pacetoxyethyl)-5-fluorobenzimidazolium perchlorate, 234° (EtCH) 459,
4.89, AgCl, 520,490,255; 1-ethyl-2-[3-(3-ethyl-5-6-hloro-2benzimidazolinylidene)propenyl]-3-(Pacetoxyethyl)-5-fluorobenzimidazolium perchlorate, 234° (EtCH) 459,
4.89, AgCl, 520,490,255; 1-ethyl-2-[3-(3-ethyl-5-6-hloro-2benzimidazolinylidene)propenyl]-3-(Pacetoxyethyl)-5-fluorobenzimidazolium bromide, >250° (EtCH), 502, 528, 84, 84, 52, 58, 570, 385;
1-ethyl-2-[3-(1,3-diethyl-1-5,6-dichloro-2-benzimidazolium iodide, >250° (EtCH), 502, 528, 84, 85, 58, 570, 385;
1-ethyl-2-[3-(1,3-diethyl-1-5,6-dichloro-2-benzimidazolium io

[3-(1,3-diethyl-5,6-dichloro-2-benzimidazolinylidene)propenyl]-5-chloro-6-fluorobenzimidazolium iodide, >250° (EtOH-C5H5N), 508, 5.82,--, --, --, --, --, 1,3-diethyl-2-[3-(3ethyl-5-phenyl-2-benzoxazolinylidene)propenyl]-5-fluorobenzimidazolium iodide, 250° (EtOH), 470, 4.88, AgBr, 555, 525, 145; 1,3-diethyl-2-[3-(3-ethyl-2-thiazolidinylidene)propenyl]-5-fluorobenzimidazolium iodide, 232° (EtOH), 460, 4.87, AgBr, 540, 520, 165; 1,3-diethyl-2-[3-(1,3-diethyl-5-fluoro-2-benzimidazolinylidene)propenyl]-5-fluorobenzimidazolinylidene)propenyl]-5-fluorobenzimidazolium iodide, 26° (EtOH), 504, 5.17, Ag(Et, I), 595, 570, 280; 1,3-diethyl-2-[3-(3-ethyl-5-6-dimethyl-2-benzoxazolinylidene)propenyl]-5-fluorobenzimidazolium iodide, 260° (EtOH), 480, 4.97, Ag(Cl, Br), 555, 520, 200;

fluorobenzimidazolium iodide, 200 (ECUN), 700, ..., 155, 520, 200;

1,3-diethyl-2-[3-(3-ethyl-2-benzothiazolinylidene)propenyl]5-fluorobenzimidazolium iodide, 245° (EtOH), 507, 5.00, AgCl, 580,
555, 235 and Ag (Br, I), 605, 590, 270;

1,3-diethyl-2-[3-(3-ethyl-2-benzoxazolinylidene)propenyl]-5fluorobenzimidazolium iodide, 255° (EtOH), 472, 5.00, AgCl, 540,
515, 110; 1,3-diethyl-2-[3-(3-ethyl-5-methyl-2-

L7 ANSWER 106 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN 1,3-dimethyl-2-[(1,3-diethyl-5,6-dichloro-2-benzimidazolinylidene)methyl]-5-cyanobenzimidazolium. iodide, >250°, (EtOH), 409, 4.459, AgCl,

(preparation of)
RN 96775-39-2 CAPLUS
CN 1H-Benzimidazolium,
5-cyano-1-ethyl-2-methyl-3-[2-[(methylsulfonyl)amino]-

2-oxoethyl]-, hydrobromide (1:1)

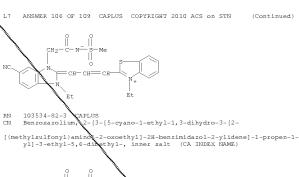
ONE OR MORE TAUTCMERIC DOUBLE BONDS NOW DISPLAYED IN THE STRUCTURE RN 101201-38-1 CAPLUS CN Benzothiazolium, 2-[3-[5-cyano-1-ethylology 1,3-dihydro-3-[2-

[(methylsulfonyl)amino]-2-oxoethyl]-2H-benzimid vol-2-ylidene]-1-propen-1-yl]-3-ethyl-, inner salt (CA INDEX NAME)

(Continued)

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106503-15-5 CAPLUS 1H-Pyrrolo[1,2-a]benzimidazolium, 6,7-dich oro-3-[2-(3-ethy1-2-

thiazolidinylidene)ethylidene]-2,3-dihydro-4-[2-[
oxoethyl]-, inner salt (CA INDEX NAME) methylsulfonyl)amino]-2-

ANSWER 107 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 1963:82272 58:82272 CAPLUS ACCESSION NUMBER: 1703:022/2 CAFEGO DOCUMENT NUMBER: 58:82272

ORIGINAL REFERENCE NO.: 58:14164f-h,14168a-h,14166a-h,14167a-h,14168a-h,14169a-

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PATENT INFORMATION: h Methine dyes Gevaert Photo-Producten N.V. 129 pp. Patent Unavailable

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	BE 618235		19620917	BE	
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	GB 1001061			GB	
	US 3243298		19660329	US 1962-197925	19620528
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PRIOR	RITY APPLN. INFO.:			GB	19610529

For diagram(s), see printed CA Issue.

New sym. and unsym. methine dyes for sensitizing photographic Ag halide emulsions are described. The new dyes are formed when benzimidazole derivs. of the general formulas I and II, where the aromatic nucleus may be substituted by Br. Cl. F. CO2Th. CO2Th. ACMH, and CN, or by a sequence of atoms necessary to complete another aromatic ring, and where X = CH2, CH2CH2, or O, are quaternized with MeI, EtI, HOCH2CH2Br (III), ACMHSO2(CH2)2Br (VI), or 1,3-propanediol sulfate (VII) and subsequently condensed with 2-(2-acetanlidovinyl)-3-ethyl-thiazolinium bromide (VIII), the 2-(2-anilinovinyl) analog (IX) of VIII, the selenazolium iodide analog

2-(2-anilinovinyl) analog (IX) of VIII, the selenazolium iodide analog of VIII, 2-(2-phenyliminoethylidene)-3-ethyl-2,3-dihydrobenzoxazole (XI), the 5-Me derivative (XII) of XI, the 5-Ph derivative (XIII) of XI, 1,3-diethyl-2-[2-(p-toluenesulfonylanilino)vinyl]-5,6-dichlorobenzimidazolium chloride (XIV),
3-ethyl-5-(2-acetanilidovinylmethylene)-2-thio-2-2,4-thiazolidinedione (XV), or the 5-(3-acetanilidoyropenylidene analog (XVI) of XV to yield unsym. methine dyes, or subsequently condensed with HC(OEt)3 or ETCCH:NCHO(OEt)2 (XVII) to yield sym. methine dyes. 2,5-CIZCHSNO2 (96 g.) added at 50° to 71 g. pyrrolidine (XVIII), kept 15 min. at 50°, diluted with H2O, and filtered gave 102 g.
N-(2-nitro-4-chlorophenyl)pyrrolidine (XIX), m. 73° (iso-PrOH).
Z,5-FZCHSNO2 (76,4 g.) added at 90° to 89 cc. XVIII, poured into H2O, and extracted with C6H6 yielded the 4-fluoro analog of XIX, m. 48° (iso-PrOH). XVIII (15,6 g.) added dropwise to 23 g. 4,3-CI(OEN)CGH3COZET (in 60 cc. refluxing absolute BtOH, refluxed 1 hr., poured into H2O, and filtered yielded the 4-COZET analog of XIX, m. 78°.
2,4,5-CI(OZN)ZCHZCOZH (143 g.) and 140 cc. SCCI2 heated 3 hrs. on the water bath and evaporated, and the residue treated slowly with 220 cc.

poured into 2 1. H2O, and filtered yielded 2,4,5-C1(O2N)2C6H2CO2Et (XX), m. 78° (EtOH). XX (55 g.) in 250 cc. MeOH added dropwise to 28.4 g. XVIII, heated 10 min. on the water bath, and filtered gave the N-[5,4,2-C1(EtO2C)(O2N)C6H2) derivative of XVIII, m. 105°. 4,3-C1(O2N)C6H3CO2C1 (102.4 g.) added dropwise at 50° to 148 cc. XVIII, heated 15 min. on the water bath, poured into H2O, and filtered

ANSMER 107 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) yielded 2-pyrrolidino-5-(pyrrolidinosulfonyl)-1-nitrobenzene, m. 133° (iso-PrOB). 2,5-Br(F)C6H3NO2 (115 g.) and 109 cc. piperidine (XXI) heated 1.5 hrs. with stirring at 95°, dild. with H2O, and filtered gave the 2,4-F(C2H)C6H3 deriv. of XXI, m. 53° (iso-PrOB). 1-[4,2-C1(H2N)C6H3] deriv. (82.4 g.) of XVIII (obtained by hydrogenation of XIX) in 625 cc. 2N HCl diazotized with 29.4 g. NaNO2 in 70 cc. H2O, poured into 35.3 g. NaN3 in 168 g. NaOAc in 650 cc. H2O, and filtered,

1-[4,2-Cl(HZN)CGH3] deriv. (82.4 g.) of XVIII (obtained by hydrogenation of XIX) in 625 cc. 2N RCI disarctized with 29.4 g. NaNO2 in 70 cc. H2O, poured into 35.3 g. NaN3 in 168 g. NaOAc in 650 cc. H2O, and filtered, residue dissolved in 500 cc. PhNO2, added dropwise at. 170° to 500 cc. PhNO2, concd. in vacuo to about 100 cc., cooled, and filtered yielded 6-chloro-2,3-dihydro-1H-pyrrolo[1,2-a]benzimidazole (XXII), m. 137° (CGH6-hexane). By the method employed for the prepn. of XIX were prepd. the following N-aryl-substituted derivs. (XXIII) of XVIII and converted further by the method described for the prepn. of XXII to the following substituted derivs. of 2,3-dihydro-1H-pyrrolo[1,2-a]benzimidazole (XXIIV)[N-aryl substituent of the XXIII used, m.p. or b.p./mm. of the XXIII, substituent(s) of the resulting deriv. of XXIV, and its m.p. given]; 6,2-cl(O2N)CGH3, 134-6°/3, 8-cl (XXIV), 122°; 4,5,2-cl(2(2N)CGH2, 80°, 6,7-dl-Cl (XXVI), 215°; 4,2-F(O2N)CGH3, 80°, 6-F (XXVIII), 150°; 4,2-E-tO2C(2N)CGH3, 78°, 6-BC (XXVII), 150°, 4,2-E-tO2C(2N)CGH3, 78°, 6-BC (XXVII), 150°, 4,2-E-tO2C(2N)CGH3, 78°, 6-Co2Et, 134°; 6,2-EtCO2C(O2N)CGH3, 105° (2-NH2 analog, m. 90°), 6-carbethoxy-7-chloro (XXIX), 138°; 4,2-Me(CN)CGH3, 60°, 6-Me (XXXI), 146°, 5,4,2-Br(ECCO2C)CONNCGH3, 60°, 6-Mc (XXXII), 416°, 5,4,2-Br(ECCO2C)CONNCGH3, 60°, 6-Mc (XXXII), 5XXIII, 5X

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ANSMER 107 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) sublimed at 200°/2 mm. yielded 6-bromon-7-cyano deriv. (XLIX) of XXIV, m. 224° (C6H6-hexane). 7-NH2 deriv. (L) (17.3 g.) of XXIV in 200 cc. 5N HCl diazotized with 7.2 g. NaNO2 in 30 cc. H2O, treated with 8 g. CuCl in 35 cc. concd. HCl at 50-60°, cooled, and filtered, and the residue in H2O treated with 25% NH4OH yielded the 7-Cl deriv. (LI) of XXIV, m. 136° (C6H6). L (43.6 g.) in 31% aq. HBF4 diazotized with 18.5 g. NaNO2 in ,50 cc. H2O, and neutralized with cooling with Na2CO3 yielded the diazonium fluoroborate analog (LII) of L, m. 170-80° (decompn.). LII added to refluxing 250 cc. Tetralin until the BF3 evolution ceased and evapd., the residue extd. with warm ZN HCl, the ext. basified with Na2CO3 and extd. with CBC13, and the CHC13 ext. distd. gave the 7-F deriv. (LIII) of XXIV, m. 124°, b3 166° Similarly were prepd. by these methods the following substituted derivs. of XXIV from the corresponding 7-NO2 (LIV) via the 7-NH2 derivs. (LV) ubstituent

of LIV and LV, m. ps. of LIV and LV, and substituent(s) and m.p. of the resulting deriv. of XXIV given]: 6-C1, 203°, 264°, 6-chloro-7-cyano (LVII), 215°, 6-F, 236°, 230°, 6-fluoro-7-cyano (LVII), 210°; none, -, -, -, 7-CN (LVIII), 155°. In the same manner were prepd. the following substituted XXXII (substituent and m.ps. of the 7-NO2 and 7-NN2 analogs of the resulting XXXII, and substituent(s) and m.p. of the XXXII given]: 6-Br, 184°, 210°, 7-chloro-8-cyano (LVIIA), 210°; 6-F, 264°, 199°, 7-fluoro-8-cyano (LVIIIA), 210°; 6-F, 264°, 199°, 7-fluoro-8-cyano (LVIIIA

treated with snaking with 34 g. NaCN in 100 cc. H2O, and dild. with 40 H2O and 40 cc. CHCl3, and the org. phase worked up yielded 6-CN deriv. of XXIV, m. 190° (EtOH). 3,6-Dihydro-4,5-Denzo-2-pyrone (24.8 g.) and 18.1 g. o-C6H4(NH2)2 heated 15 hrs. at 250° under pressure and distd. yielded 6,11-dihydrobenzimidacolc[1,2-b]isoquinoline (LXVII), m. 202° (EtOAc). XXIV (6.3 g.) and 5.7 g. MeI in 15 cc. Me2CO refluxed 0.5 hr., cooled, and filtered gave XXIV.MeI, m. 220°. XXIV (6.9 ) and 23.5 g. EtI heated 15 hrs. at 110° under pressure gave XXIV.EtI, m. 198°. XXX (3.4 g.) and 1.2 cc. MeI heated 16 hrs. under pressure at 95° gave XXX.MeI, m. >270°. XXXIV (6.2 g.) and 6.2 g. EtI heated 1.5 hrs. at 110° yielded XXXIV.EtI, m. >250°. XLIV (10.4 g.) and 10 g. EtI heated 16 hrs. at 110° yielded XXIV EtI, m. 186°. 8-Aminopyrido[1,2-a]benzimidazole (LXVIII) (8.8 g.) in 80 cc. 5N HCl diazotized with 3.7 g. NaNO2 in 10 cc. H2O, poured into a CuCl soln., filtered, basified with NH4OH, and filtered yielded the 8-Cl analog X)

ANSWER 107 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (R, R' = Et, A = CHCR:CH, X = H), m. 197° (596, --, 640 AgCl); the nos. given in parentheses after the m.p. throughout this abstr. are the absorption max. and the log s value of the resp. compd. and the absorption max of an AgCl, AgCl-AgR, or AgGr-AgI photographic emulsion sensitized with the compd.). XXX.MeI (4.9 g.) in 25 cc. PhO2 refluxed 2 hrs. with 3.5 cc. HC(OEt)3, cooled, and filtered yielded LXXIII (R and R' = Me, A = CH, X = pyrrolidinosulfonyl), m. above 320° (530, 5.32, 575 AgCl). Similarly were prepd. by treatment with HC(OEt)3 dyes from

(LXIX

following quaternary salts (m.p. and, in parentheses, absorption data of the resulting dye given): XLIV.EtI, 238° (528, --, 590 AgCl): LXXII.MeI, 260° (532, --, 575 AgCl); LXXI.III, 220-4° (537, 4.97, 590 AgCl); IX (3.1 q.) and 3.1 q. LVIII.III in 20 cc. Ac20 treated with 2.8 cc. Et3N, refluxed 15-min., cooled, dild. with Et2O, and

filtered and the residue treated with NaClo4 gave LXXIV (R = Et, R' = CH2CH2OAc, X and X'' = H, X' = CN, Z = S, An = Clo4), m. 175° (476, 5.12, 520 AgCl-AgBr). XLIX.EtI (2.1 g.), 1.6 g. IX, and 25 cc. Ac20 refluxed 2

with 1.4 cc. Et3N, cooled, and filtered gave LXXIV (R and R' = Et, X =  $\frac{1}{2}$ 

 $\rm X^{\prime}$  = CN,  $\rm X^{\prime\prime}$  = H, Z = S, An = I), m. >260°, (MeOH)(480, 5.135, 540 AgBr-AgI). Similarly were prepd. dyes from the following quaternary

X' = CN, X' = H, Z = S, An = I), m. >260°, (MeOH)(480, 5.135, 540 AgBr-AgI). Similarly were prepd. dyes from the following quaternary s (same data given): XXIV.EtI, >250° (462, 5.03, 500 AgCl-AgBr); XXIX.EtI, 302° (474, 5.09, 520 AgCl-AgBr); XXXVIII.EtI, 270° (474, 5.034, 520 AgCl-AgBr); XXXII.EtI, >260° (472, 5.01, 525 AgCl-AgBr); LIX.EtI, >250° (480, 5.18, 540 AgCl-AgI); LX.EtI, >250° (480, 5.10, 540 AgBr-AgI); XIV.EtI, >250° (480, 5.18, 540 AgCl-AgI); LX.EtI, >250° (480, 5.10, 541, >250° (483, 4.95, 520 AgCl-AgBr); XXV.EtI, >250° (481, 4.95, 490 AgCl-AgBr); LIX.EtI, >250° (468, 5.03, 500 AgCl); XXVI.EtI, >250° (468, 4.95, 490 AgCl-AgBr); LIX.EtI, >250° (468, 5.03, 500 AgCl); XXXII.EtI, >260° (468, 5.03, 500 AgCl-AgBr); XXIX.EtI, >260° (468, 5.03, 500 AgCl-AgBr); XXXIX.IX.IV, >260° (460, 5.036, 500 AgCl); XXXIX.IV.IV.ETI, >250° (480, 5.036, 500 AgCl); XXXIX.IV.IV.ETI, >250° (480, 5.07, 520 AgCl-AgBr); XXIX.VII. >250° (487, 4.91, 520 AgCl-AgBr); XXIX.VII. >250° (487, 5.02, 520 AgCl-AgBr); XXXII. >250° (480, 5.07, 520 AgCl-AgBr); XXIX.VII. >250° (480, 5.07, 520 AgCl-AgBr); XXIX.VII. >250° (480, 5.07, 520 AgCl-AgBr); XXIX.VII. >250° (480, 5.07, 520 AgCl-AgBr); XXXIX.VII. >250° (480, 5.07, 520 AgCl-AgBr); XXXIX.VII. >250° (480, 5.07, 520 AgCl-AgBr); XXXIX.VII. >250° (480, 5.07, 520 AgCl-AgBr); XXX.MEI, <250° (480, 5.09, 510 AgCl-AgBr); XXX.MEI, <250° (480, 5.09, 510 AgCl-AgBr); XXX.MEI, >250° (480, 5.111, 5.15, 5.20 AgCl-AgBr); XXX.MEI, >250° (480, 5.111, 5.15, 5.2

in.
 with 3.2 cc. Et3N and cooled gave LXXIV (R and R' = Et, X and X' = H, X''
 = Cl, Z = Se, An = I), m. 285° (Et0H) (462, 5.13, 500 AgCl-AgBr).
XII (2.8 g.) and 3.15 g. XXIV EtI in 30 cc. Ac20 refluxed 45 min. with 2.8
 cc. Et3N, cooled, and dild. with Bt2O, and the ppt. treated with NaClO4
 yielded LXXV (R and R' = Et, X = Me, X', Y, and Y' = H, Z = O, An = ClO4),
 m. >250° (470, 4.99, 510 AgCl-AgBr). Similarly were prept. dyes

ANSWER 107 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) from the following quaternary salts with the 5,6-di-Me deriv. of XI (s data given): XXIX.MeI, >310° (490, 5.22, 540 AgCl); XXX.MeI (with XII), 295° (486, 5.205, 520 AgCl-AgBr), LXIV.MeI, >270° (486, 5.194, 520 AgCl); LXIVA.MeI, >270° (492, 5.153, 535 AgCl); XLV.EtI, 302-4° (520, 5.158, 560 AgCl-AgBr); LXXI.EtI, 285° (496, 5.218, 540 AgCl-AgBr); LXV.MeI, >270° (492, 5.273, 530 AgCl). XII (5.6 g.) and 5.6 g. XXIV.III in 50 cc. Ac20 treated with stirring h

XIV.EtI, 302-40 (520, 5.158, 560 AgCl-AgBr); IXXI EtI, 2855\*
(496, 5.218, 540 AgCl-AgBr); IXV.MeI, >2700 (492, 5.273, 530 AgCl).
XII (5.6 g.) and 5.6 g. XXIV.III in 50 cc. Ac20 treated with stirring h
5.6 cc. Rt3N, stirred 2 hrs. at room temp. and 15 min. at reflux, cooled, and didd. with Rt20, and the ppt. treated with NaCl04 yieleded LXXV (R = Et, R' = CH2CH2CAC, X = Me, X', Y, and Y' = H, Z = O, An = Cl04), m.
>2550\* (474, 5.07, 540 AgBr-AgI). IVIII.III gave similarly a dye, m.
220\* (4.92, 5.12, 520 AgCl-AgBr). 5,6-b1-Me deriv. (LXXVI)(2.9 g.) of XI and 3.15 g. XXV.EtI in 30 cc. Ac20 treated with stirring with 2.8 cc. EtNN, stirred 1 hr. at room temp. and 15 min. at reflu, and dild. with Rt2O pptd. LXXV (R and R' = Et, X and X' = Me, Y and Y' = H, Z = O, An = II). 169\* (EtCH) (476, 5.08, 510 AgCl-AgBr). Similarly were prepd. dyes from the following quaternary salts (same data given): XXIX.EtI, 2560\* (498, 5.28, 540 AgCl-AgBr); LXXX-MeI, >270\* (492, 5.125, 540 AgCl); XXIXA.EtI, >250\* (498, 5.37, 545 AgCl); XXXVI.EtI, >250\* (492, 5.14, 540 AgCl); LI.EtI (with XII), >250\* (478, -5.20 AgCl-AgBr); XXVI.EtI, >250\* (494, 5.163, 520 AgCl-AgBr); XXVI.EtI, >260\* (494, 5.163, 520 AgCl-AgBr); XXVI.EtI, >260\* (494, 5.163, 520 AgCl-AgBr); XXVII.EtI, >250\* (494, 5.164, 5.20, 540 AgCl); XXXVI.EtI, >250\* (494, 5.163, 520 AgCl-AgBr); XXVII.EtI, >250\* (494, 5.164, 520 AgCl-AgBr); XXVII.EtI, >250\* (494, 5.164, 540 AgCl); XXXVII.ETI, >250\* (494, 5.164, 5.1

ANSWER 107 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) (512, 5.13, 580 AgC1); XXXII.VII, >260° (515, 4.937, 580 AgC1); LMeI, -- (--, --, 580). XL.EI (3.8 g.), 3.3 g. benzoselenazole analog of XI, 25 cc. Ac20, and 1.4 cc. Et3N heated 5 min. at 60°, cooled, and filtered gave LXXVII (R = Et,R' = Me, X,X', and Y' = H, Y = CF3, Z = Se, An = I), m. 268° (MeoCH2CH2OH) (512, 5.024, 560 AgBr-AgC1). XXIX.MeI (4.06 g.) and 3.55 g. VIII in 60 cc. abs. refluxing Et0H treated dropwise with 1.4 cc Et3N, refluxed 20 min., cooled, and filtered gave LXXVI (R = Et,R' = Me,X = CO2Et, X' = CI,X' = H,S = S, An = I), m. >270° (MeoH) (470, 5.145, 520 (AgCl-AgBr). Similarly were prepd. dyes from the following quaternary salts (same data given): XLVI.EI, >260° (495, 5.048, 540 AgCl-AgBr); LXII.MeI, >260° (500, 473, 550 AgCl-AgBr). LXVII.MeI, >260° (500, 473, 550 AgCl-AgBr). LXVII.MeI, >260° (500, 473, 550 AgCl-AgBr). LXVII.MeI (3.62 g.), 3.55 g. VIII, 25 cc. SMe2,

de2, and 1.4 cc. Et3N refluxed 5 min., cooled, filtered, dild. with Et02, and filtered again yielded LXXVII, m. 275° (Et0H) (456, 4.796, 520 AgCl-AgBr). XXV.EtI (4.9 g.) and 4.9 g. XI in 30 cc. Ac20 refluxed 3

with 3.2 cc. Ec3N, cooled, and filtered gave LXXV (R and R' = Et, X, X', and Y = H, Y' = Cl, Z = Se, An = I), m. 290° (HCONMe2) (506, 5.01, 555 Agbr-AgI). XXXVI.V (4.56 g.), 3.4 g. XIII, 40 cc. HCONMe2, and 1.4 cc. Et3N refluxed 10 sec., treated with 5 cc. Ac20, refluxed 4 min., cooled, and filtered yielded LXXVII (R = Et, R' = MeSO2N-COCH2, X = Ph,

= H, Y' and Y' = C1, Z = O, no An (R' is charged), m. >260° (PhOH-EtOH) (495, 4.950, 555 AgCl-AgBr). LXVII.MeI (2.75 g.), 1.81 g.

(PhOH-EtcH) (495, 4.950, 555 AgCl-AgBr). LXVII.MeI (2.75 g.), 1.81 g.
75 cc. MeOH, and 3.4 cc. Et2N refluxed 5 min., cooled, and filtered yielded LXVII (R = Et, R' = Me, X and X' = Cl, Y and Y' = H, Z = NBt, An = 1), m. >270° (MeoCH2CH2OH) (502, 4.960, 570 AgCl). LXXII.2EFI (1.73 g.), 1.9 g. IX, 20 cc. Ac20, and 1.7 cc. Et3N refluxed 45 min., cooled, and dild. with Et20 pptd. LXXIX, m. >320° (EtCH) (548, 5.30, 595 AgCl-AgBr). XXII.EtI (3.5 g.), 3.1 g. XV, 25 cc. Ac20, and 2.8 cc. Et3N, cooled, and dild. with H20 pptd. LXXIX, m. >320° (EtCH) (548, 5.30, 595 AgCl-AgBr). XXII.EtI (3.5 g.), 3.1 g. XV, 25 cc. Ac20, and 2.8 cc. Et3N, cooled, and dild. with H20 pptd. LXXX (R and R' = Et, X = Cl, Z = S, A = CH), m. 294° (MeoCH2CH2OH) (524, 4.95, 590 AgCl). Similarly were prepd. dyes from the following quaternary salts (same data given): XXIV.MeI, 265-7° (516-488, 4.57-4.49, 570 AgCl); XXVII.EtI, 276-8° (520, 4.98, 570 (AgCl); XXVIII.EtI, 260° (522, 4.98, 570 (AgCl); XXVIII.EtI, 260° (524, 5.01, 585 AgCl); XXXVIE, Etd-45° (522, --, 580 AgCl); XXXIX.EtI, 280° (528, 5.16, 585 AgCl); XXXV.EtI, 164-5° (522, --, 580 AgCl); LXVII.MeI, 260° (518, 4.832, 570 AgCl); XIVI.EtI, 260°, 580 AgCl); LXVII.MeI, 260° (518, 4.832, 570 AgCl); XIVI.EtI, 260°, 580 AgCl); LXVII.MeI, 260° (516, 4.832, 570 AgCl); XIVI.EtI, 260°, 580 AgCl); XXIV.EtI (3.14 g.), 2.9 g. XV, 25 cc. Mc Carbitol, and 2.8 cc. Et3N refluxed 20 min., cooled, and dild. with H20 pptd. LXXX (R and R' = Et, X = H, Z = 0, A = CH), m. 160° (11: EtOH-Mc Carbitol) (498, 4.332, --, 575 AgCl).
10-3-ethyl-5-(4-(5-ethyl-7-chloro-1, 2, 3, 4-tetrahydropyrido[1, 2-

Agc1). io-3-ethyl-5-[4-(5-ethyl-7-chloro-1,2,3,4-tetrahydropyrido[1,2-a]benzimidazolyl)-methylene]-2,4-thiazolidinedione (1.8 g.) in 150 cc. 2-Thic

C6H6 refluxed 4 hrs. with 0.58 cc. Me2SO4, cooled, and filtered, the resulting LXXXII (R = MeS)  $(1.7~\rm g.)$ , 0.6 g. 3-ethyl-2-thio-2,4-thiazolidinedione, 20 cc. C5H5N, and 0.5 cc. Et3N

ANSWER 107 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) refluxed 2-3 min., dild. with 15 cc. C5H5N, cooled, and filtered, and the residue recrystd. successively from C5H5N, HCORMe2-PrOH, and McCCH2CH2OH gave LXXXIII, m. >260° (592, 5.124, 680 AgCl-Ag-Br). LXXXII (R = MeS) (0.53 g., 0.6 g. LXXXIII, 0.31 g. 2,5-dimethyl-3-ethylbenzothlarollum methosulfate, 15 cc. C5H5N, and 0.14 cc. Et3N refluxed 2.3 min., cooled, and filtered gave LXXXII (R = 5-methyl-3-ethyl-2-benzothiazollum methosulfate, 15 cc. C5H5N, and 0.14 cc. Et3N refluxed 2.3 min., cooled, and filtered gave LXXXII (R = 5-methyl-3-ethyl-2-benzothiazolylidenemethyl), m. >260° (MeoCH2CH2OH) (605, 4.943, 640 AgCl-AgBr). XVI (3.32 g.) and 3.625 g. XXXIV.Et1 in 70 cc. refluxing Me2SO treated with 1.4 cc. Et3N, heated 2 hrs. at 90°, cooled, dild. with 210 cc. H20, refrigerated overnight, and filtered gave LXXX (R and R' = Et, X = C1, Z = S, A = CHCH1CH), decomp. on heating (EtOH) (615, --, 670 (AgCl-AgBr). LXXXII LXXIII. ZELI (2.8 g.) in refluxed flat with 100 cc. Me2SO treated with 3.06 g. XV and 2.8 cc. Et3N, heated 3 hrs. at 95° while being treated with an addnl. 1.4 cc. Et3N during 2 hrs., dild. with 100 cc. MeOH, and filtered gave LXXXIV, m. >260° (POH-MeOH) (620, 5.460, 645 AgCl). p=Me2NC6H4CH0 (1.5 g.) and 3.14 g. XXIV.Et1 in Ac2O treated with 2.8 cc. Et3N, refluxed 15 min., cooled, and filtered gave the 3-(p-dimethylaminobenzylidene) deriv. of XXIV.Et1 na. 270° (EtOH) (429, 4.13, 430-488 AgCl). XXVI.IV (4.85 g.) in 125 cc. Mc Carbitol treated with 4.49 g. X and 2.8 cc. Et3N, heated 10 min. at 100% cooled, dild. with 200 cc. Et2O. and decanted, and the residue recrystd. from HCONNe2 gave LXXIV (R = Et, R' = AcNHSO2(CH2)4, X and X' = C1, X'' = H, Z = Se, An = I). XXVI.V (gave similarly a dye, m. >260° (477, --, 525 AgCl-AgBr). XXVI.V (Tabe at 3 min., 260° (477, --, 525 AgCl-AgBr). XXVI.V (Tabe at 3 min., 260° (477, --, 525 AgCl-AgBr). XXVI.V (Tabe at 3 min., 260° (477, --, 525 AgCl-AgBr). XVII.V (Tabe at 3 min., 260° (477, --, 525 AgCl-AgBr). XVIV

##-Pyrroio[1,2-a]benzimidazolium,
7-bromo-6-(ethoxycarbonyl)-2,3-dihydro-4
[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide 59505-22-5P,
Pyrido[1,2-a]benzimidazolium, 7,8-dichloro-1,2,3,4-tetrahydro-5-[2[(methylsulfonyl)amino]-2-oxoethyl]-, bromide 59505-69-0P,
]#-Pyrroio[1,2-a]benzimidazolium,
7-chloro-6-(ethoxycarbonyl)-3-[(3-ethyl-

2-thiazolidinylidene)ethylidene]-2,3-dihydro-4-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt 59505-84-9P, 2-oxoethyl]-, inner salt 59505-1H-Pyrrolo[1,2-a]benzimidazolium, 7-bromo-6-(ethoxycarbonyl)-3-[(3-ethyl-2-

thiazolidinylidene)ethylidene]-2,3-dihydro-4-[2-[(methylsulfonyl)amino]-2oxoethyl]-, inner salt 59506-52-4P,
Pyrido[1,2-a]benzimidazolium, 7,8-dichloro-4-[(3-ethyl-5-phenyl-2(3H)-benzoxazolylidene)ethylidene]-1,2,3,4-tetrahydro-5-[2[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt 100260-61-5P,
6,7-Dichloro-4-[2-(3-ethyl-2-thiazolidinylidene)ethylidene]-1,2,3,4tetrahydro-5-[[(methylsulfonyl)carbamoyl]methyl]pyrido[1,2a]benzimidazolium hydroxide, inner salt 106884-83-7P,

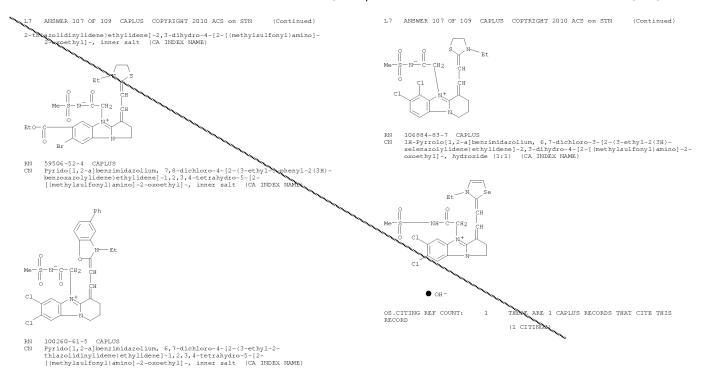
6,7-Dichloro-3-[2-(3-ethyl-2-selenazolinylidene)ethylidene]-2,3-dihydro-4-

ANSWER 107 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) [[(methylsulfonyl)carbamoyl]methyl]-1H-pyrrolo[1,2-a]benzimidazolium hydroxide, inner salt RL: PREF (Preparation) (prepn. of) 55 04-84-6 CAPLUS 1H-Hzrolo[1,2-a]benzimidazolium, 6,7-dichloro-2,3-dihydro-4-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME) ANSWER 107 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) CH2 Pyrido[1,2-a]benzimidazolium, 7,8-dichloro-1,2,3,4-tetrahydro-5-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME) • Br-59504-92-6 CAPLUS NN JB-79rolo[1,2-a]benzimidazolium,
7-chloro-6-(ethoxycarbonyl)-2,3-dihydro4-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) INDEX NAME) ● Br-59505-69-0 CAPLUS HE-Pyrrolo[1,2-a]benzimidazolium, 7-chloro-6-(ethoxycarbonyl)-3-[2-(3-ethyl-2-thiazolidinylidene)ethylidene]-2,3-dihydro-4-[2-(Methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME) ● Br-59504-99-3 CAPLUS

1H-Pyrrolo[1,2-a]benzimidazolium,

omo-6-(ethoxyoarbonyl)-2,3-dihydro-4
[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME) 59505-84-9 CAPLUS 1H-Pyrrolo[1,2-a]benzimidazolium, mo-6-(ethoxycarbonyl)-3-[2-(3-eth

Searched by Jason M. Nolan, Ph.D.



1962:401934 CAPLUS
57:1934
57:328g-i,329a-i,330a-i,331a-f
Sensitization of photographic s
Nys, Jean; Depoorter, Henri
Gevaert Photo-Producten N.V.
17 pp.
Fatent DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: silver halide emulsions TITLE: INVENTOR(S): INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PATENT INFORMATION: acent navailable PATENT NO. APPLICATION NO. DE 1081311 19600505 DE 1958-G24862 19580704 GB US 1960-76525 19661101 19601219 PRIORITY APPLN. INFO.: GB The preparation is described of polymethine photog, sensitizers which ain at least 1 heterocyclic N atom and an organic group of the type AWNHXY or AWNXY, where A is a hydrocarbon radical, W and X are SO2 or CO or single bonds, at least 1 W or X is SO2, and Y is a hydrocarbon radical, a substituted amino group, or (if X is not CO or SO2) a 14 atom. The absorption maximum of a dye, the upper limit of sensitization by the dye photog. emulsion layer, and the absorption maximum of the sensitized Ag halide emulsion are given in m $\mu$  in parentheses together with the dye throughout this abstract Powdered Br(CH2)3SO3Na (275 g.) added with cooling and stirring slowly to 276 g. PCl5, kept 1 h. at room temperature, treated acomplise at 5° with stiffing with 16.0 CC. 3N mach and 9 G I during 3 h at pH 8, stirred 20 min., acidified with 4.2 CC entrated HCl, and evaporated, and the residue extracted with Me2CO gave from the

and evaporated, dractic located and the created and evaporated br(CH2)3SO2NHSO2Me, m. 72°. IV (72 g.) and 208 g. BrCH2COC1 heated 1 h. at 100° gave BrCH2CONHSO2Me, m. 110° (CGH6). EtSO2NH2 (4.8 g.), 12 g. BrCH2COC1, and 25 cc. dry CGH6 refluxed 3 h., cooled,

and
diluted with petr. ether gave BrCH2CONHSO2Et, m. 104° (C6H6).
BrCH2CH2NH2.HBr (51 g.) in 100 cc. C5H5N treated at 5-10o dropwise with
MeSO2Cl, cooled, filtered, and evaporated, and the residual oil
extracted with
Me2CO gave MeSO2NHCH2CH2Br, m. 49°. III (23.,5 g.) in 100 cc. dry

icted with Me2CO gave MeSO2NHCH2CH2Br, m. 49°. III (23.,5 g.) in 100 cc. dry dioxane treated with stirring at 0° with 6.4 cc. N2H4, stirred 1 h.

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ACCESSION NUMBER:

trimethinecyanine iodide (VI) (517, 600, 550).

1-(2-Methylsulfonylaminoethyl)quinolinium bromide (2.6 g.) and 2.3 g.

2-methylthio3-methylbenzothiazolium toluenesulfonate gave similarly [2-[1-(2-methylsulfonylaminoethyl)quinoline]]

[2-(3-methylbenzothiazole)]monomethinecyanine bromide (486, 560, 540), KI, and filtered gave [2- [3 - (3 - acetylsulfamoylpropyl) - 5-phenylbenzoxazole] ] [2(3-ethylbenzothiazole)]trimethinecyanine iodide (526, 615, 560). [2-[3-(4-Ethylsulfamoylbutyl)benzoselenazole]]

ANSWER 108 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) at 0° filtered, and evapd. yielded oily Br(CH2)4So2NHNH2 (V). V (31.7 g.) treated gradually with 31.7 cc. Ac2O, kept several days,

1 h. on the water bath, and cooled gave Br(CH2)4SO2NHNAc2 m. 116° (C6H6-hexane). Me2 NSO2NH2 (186 g.), 409 g. BrCH2COCl, and 2 1. dry

refluxed 10-15 h., filtered, cooled, and dild. with 3 I. hexane gave BrCHZCONHSOZMe2, m. 84°.2-(2-Acetylanilinovinyl)-3-ethylbenzoxazolium iodide (Va) (1.45 g.), 1 g. 2,4-dimethyl-3-(3-sulfamoylpropyl)thiazolium bromide, 15 co. C5HSN, and 1 cc. Et3N heated 10 min. on a water bath and poured into Et2O pptd. [2-(3-ethylbenzoxazole)][2-[3(3 - sulfamoylpropyl) - 4 - methylthiazole]

2. ANSWER 108 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) [2-(3cthylbenzoselenazole)] mesomethyltrimethinecyanine iodide (IX) (560, 660, 605-10) was preped, by heating 5.8 g. 2-methyl-3 - (4 - ethylsulfamoylbutyl)benzoselenazolium bromide, 2 g. 2-(2-methylthio-2-methylvinyl)-3-ethylbenzoselenazolium methosulfate, 30 cc. C5H5X, and 2 cc. RENN 5 min., and pouring into Et2O, dissolving the ppt. in EtOH, and treating the soln. with aq. KI. 2-Methyt-3-(4-acetylsulfamoylbutyl)benzothiazolium bromide (IXa) (4.07 g.). 2.96 g. HC(OEt)3 (X), and 10 cc. Ac2O refluxed 15 min. and cooled gave bis[2-[3- (4-acetylsulfamoylbutyl)benzothiazole]]trimethinecyanine bromide (560, 665, 595). 2-Methyl-3- [2- (N-methylsulfonylcarbamoyl)ethyl] benzoselenazolium bromide (4.26 g.), 2.96 g. X. and 25 cc. Ac2O gave similarly

bis[2-[3-(2-(N-methylsulfonylcarbamoyl)ethylz)benzoselenazole]]trimethinecyanine bromide (576, 670, 605-10), and 4.9 g. 1-ethyl-2-methyl-3-(4-acetylsulfamoylbutyl)-5,6-dichlorobenzimidazolium bromide with 4.4 g. Va gave [2-(3-ethylbenzoxazole)]2-[1-ethyl-3-(4-acetylsulfamoylbutyl)-5,6-dichlorobenzimidazolium bromide with 4.4 g. Va gave [2-(3-ethylbenzoxazole)]2-[1-ethyl-3-(4-acetylsulfamoylbutyl)-5,6-dichlorobenzimidazolium bromide (400, 600, 547). 2-Methyl-3-(N-ethylsulfonylcarbamoylmethyl)benzothiazole] trimethinecyanine iodide (490, 600, 547). 2-Methyl-3-(N-ethylsulfonylcarbamoylmethyl)benzothiazole] mesomethyltrimethinecyanine iodide (52, 99, and 5.9 sc. McC(OMe)3 gave similarly

bis[2-[3-(dimethylaminosulfonylcarbamoylmethyl)benzothiazole]] mesomethyltrimethinecyanine iodide (540, 650, 595). 2,5,6-Tri-Me - 3 - Methylsulfonylcarbamoylmethyl)benzothiazole]] mesomethyltrimethinecyanine iodide (526, 600, 560), 2-methyl-3- (dimethylaminosulfonylcarbamoylmethyl)benzothiazole]] redimethylaminosulfonylcarbamoylmethyl)benzothiazole]] redimethylaminosulfonylcarbamoylmethyl)benzothiazole]] redimethylaminosulfonylcarbamoylcarbyl)benzothiazole]] remethylsulfonylcarbamoylcarbyl)benzothiazole]] remethylsulfonylcarbamoyl

L7 ANSWER 108 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
4.5 g. VIIIh, 25 cc. Ac20, ac2.8 cc. Bt3N refluxed 10 min. and cooled
gave [2-[3-(N-methylsulfonylcarbamoylmethyl) - 5 - phenylbenzoxazole]]
[2(3ethylbenzothiazole)]trimethinecyanine iodide (526, 620, 560).

Similarly
were prepd (same data given) [2-[3-(4-acetylsulfamoylbutyl) - 5,6 dimethylbenzoxazole]] [2 - [3 - (N
methylsulfonylcarbamoylmethyl)-5,6-dimethylbenzoxazole] trimethinecyanine
bromide (501, 555, 520), 2,5,6-trimethyl3-(N)-methylsulfonylcarbamoylmethyl)-5,6-dimethylbenzoxazolium bromide (501, 555, 520), 2,5,6-trimethyl3-(N)-methylsulfonylcarbamoylmethyl)-benzoxazolium bromide, 2.4,
2-(2-anilinoyinyl)-3-(4-acetylsulfamoylbutyl) 5,6-dimethylbenzoxazolium
bromide (XIII), 2.6; anhydro[2-] 3 - (4-acetylsulfamoylbutyl) - 5,6dimethylbenzoxazole]][2-[3 - (sulfocarbomethoxymethyl)benzothiazole]]
trimethinecyanine hydroxide (526, 600, 560), XIII, 2.6,
2-methyl-3(sulfocarbomethoxymethyl)benzothiazolium bromide Na salt, 2.0;
bis[2-[3-(4-dacetylsulfamoylbutyl) benzothiazole]]pentamethinecyanine
bromide (554, 760, 700), IXa, 8.14, 1- anilino-3-phenyliminopropene-HCl,
2.6; 2-(3,3-divaynopropenylidene) 3 - (4acetylsulfmoylbutyl)benzothiazoline (450, 540, 485), Xa, 4,
anilinomethylidenemalononitrile 1.7. VIIla (7 g.) in 30 cc. C5H5N

refluxed

0.15 h. with 7 cc. X and dild. with aq. KBr gave

bis[2-[3-(2-methylsulfonylaminoethyl)benzothiazole]]trimethinecyanine
bromide (563, 665, 595). 2-Methyl-3-(R-methylsulfonylcarbamoylethyl)5chlorobenzothiazolium bromide (4.1 g.) with 2.96 g. X gave similarly
[2-[3-(N-methylsulfonylcarbamoylethyl)]
5-c-horobenzothiazolium bromide (4.1 g.) with 2.96 g. X gave similarly
[2-[3-(N-methylsulfonylcarbamoylethyl)-5-phenylbenzoxazolium bromide

with

1 cc. Cr5H3N, 2 cc. Ca.02, and 1.4 cc. Et3N hated 10 min., poured into
Et2O, and the ppt. treated with aq. NaI yielded
[2-(3-benzylbenzoxazole]] mesopropyltrimethinecyanine iodide (510, 595).

2.4-Di-Me - 3 - (N-methylsulfonylcarbamoylmethyl)-5-methylbenzothiazo

L7 ANSWER 108 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
g.) and 3.2 g. XI in 50 cc. EtOH heated 15 min. with 2.8 cc. Et3N and cooled gave [2 - [3 - (2 - methylsulfonylaminoethyl) benzothiazole]] [5

- (3-allylrhodanine]dimethinemerocyanine (535, 675, 590). XII (4.53 g.) and 2.52 g. Me2So4 heated 10 min. at 120-300, 2.9 g. of the resulting dye

salt (XV), 2.1 g. 2,6-dimethyl-3(sulfocarbomethoxymethyl)benzothiazolium bromide Na salt, 20 cc. C5H5N, and 1.4 ccg. Et2N heated 0.5 h. on the water bath and cooled gave anhydro[2-[3-allyl-5-[3-(2-methylsulfonylaminoethyl) - 2 - benzothiazolinylideneethylidene]4-thiazolinone]] [2-(3-sulfocarbomethoxymethyl) - 6 - methylbenzothiazole]monomethinecyanine hydroxide (595, 700, 640). XV (2.9 g.), 2 g. 2-methyl-3-ethyl-4,5-diphenylthiazolium iodide, 100 cc. EtOH, and 1.4 cc. Et2N heated 15 min. on a water bath yielded
[2-[3-allyl-5-[3-(2-methylsulfonylaminoethyl)] - 2 - benzothiazolinylideneethylidene] - 4 - thiazolinone]] [2 - (3 - ethyl-4,5-diphenyl) thiazole] monomethinecyanine iodide (XVI) (591, 700, 640). XII (2.9 g.), 1.75 g. 2-(2-methoxypropylidene)-3-ethylbenzothiazolium methosulfate, 25 cc. C5H5N, and 1.4 cc. Et3N refluxed 15 min. gave the [2-(N-ethylbenzothiazole)] menomethinecyanine iodide (XVI) (591, 700, 640). XII (2.9 g.), 1.75 g. 2-(2-methoxypropylidene)-3-allyl-4-thiazolidinadiate analog

of XVI (618, -690). XV (2.9 g.), 0.95 g. 3-allylrodanine, 30 cc. EtOH, and 1.4 cc. Et3N ylelded similarly
[2-[3-(2-methylsulfonylaminoethyl)benzothiazole]] [5-[2-(5-3-allyl-2-thio-2,4-dioxothiazolidinylidene)-3-allyl-4-thiazolidinone]] dimethinemerocyanine (568, 700, 640). XV (2.9 g.) with 1.31 g. 3-ethyl-5-(1-phenylethylidene)-nodanine gave similarly
[2-[3-(2-methylsulfonylaminoethyl)benzothiazole]] [5-[2-(p-dimethylaminophenyl)vinyl]-3-(4-acetylsulfamoylbutyl)benzothiazole] [5-[2-(p-dimethylaminophenyl)vinyl]-3-(4-acetylsulfamoylbutyl)benzothiazole]]
Type96-52-8P, benzothiazolimy, 5-methyl-3-[[3-(methylsulfonyl)arbamoylmethyl]-2-[3-(3-propyl-2-thiazolidinylidene)Ph

Me

CH2-C-NH-S-Me

n-Pr

N+

CH2-C-NH-S-Me

n-Pr

N+

CH2-C-NH-S-Me

N
Br
RN

101983-N8-6 CAPLUS

Benzotharzolium, 2-[3-(3-ethyl-2(3H)-benzothiazolylidene)-1-propen-1-yl]5,6-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, iodide (1:1) (CA

INDEX NAMN)

Me

N+

CH2-C-NH-S-Me

N+

CH2-C-NH-S-Me

N+

CH2-C-NH-S-Me

N+

CH2-C-NH-S-Me

Et

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(Continued)

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10/541,429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  L7 ANSWER 109 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 218° (EtcH-Et2O); 1 ethyl-2-methyl-3-[ν-(acetylsulfamoyl)butyl]-5,6-dichlorobenzimidazolium bromide, m. 225°; 2,4 - di-Me - 3 - [(methylsulfonylcarbamoyl)methyl] thiazolium bromide, m. 228°; 2 methyl-3-[β-(methylsulfonylcarbamoyl)ethyl]-5-chlorobenzothiazolium bromide, m. 115°; 1- [β- (methylsulfonamido)ethyl] - 2-methyl-3-[[(dimethylsulfamoyl)carbamoyl] methyl] benzothiazolium bromide, m. 16°; 2-methyl-3-[(dimethylsulfamoyl)carbamoyl] methyl] benzothiazolium bromide, m. 16°; 2-methyl-3-[[odimethyl-3-[σ- (acetylsulfamoyl)propyl]benzothiazolium bromide, m. 260°; 2-methyl-3-[β- (methylsulfonylcarbamoyl)ethyl]benzothiazolium bromide, m. 204°; 2,5,6-trimethyl-3-[σ- (acetylsulfamoyl)butyl] benzoxazolium bromide, m. 204°; 2,5,6-trimethyl-3-[σ- (acetylsulfamoyl)butyl]-5,6-dimethylbenzoxazolium bromide, m. 213-14°; 2,5,6-trimethyl-3-[(methylsulfonylcarbamoyl)methyl] benzoxazolium bromide, m. 174-6° (tetrahydrofuran-Et2O). From these intermediates the following polymethine dyes were prepd. (dye, absorption max. (mµ), Aghalide, sensitizing limit, and sensitization max. given): 2[[3-(ω-sulfamoylproyl)-4methyl-2- thiazolinylidene]propenyl]-3-ethylbenzoxazolium iodide, 517, Ag bromoiodide (1), 600, 550; 1 methyl-2-[[3]ω - (acetylsulfamoyl)butyl] - 2 - benzothiazolinylidene] methyllapathol(2,-d]thiazolium bromide, 444, AgCl, 500, 480; 2-[(3-ethyl-2-benzothiazolinylidene)propenyl]-3- [ω-
                                                                            ANSWER 109 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN SSION NUMBER: 1962:71146 CAPLUS
                  ACCESSION NUMBER:
                     DOCUMENT NUMBER:
ORIGINAL REFERENCE NO.:
                                                                                                                                                                                                                                                                                                                                         56:71146
                                                                                                                                                                                                                                                                                                                                      56:13705g-i,13706a-i,13707a-g
                                                                                                                                                                                                                                                                                                                                   Polymethine dyes
Nys, Jean; Depoorter, Henri
Gevaert Photo-Producten N.V
                        TITLE:
                        INVENTOR (S):
                        PATENT ASSIGNEE(S):
                        DOCUMENT TYPE:
LANGUAGE:
                                                                                                                                                                                                                                                                                                                                         Unavailable
                     FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                                  PATENT NO.
                                                                                                                                                                                                                                                                                                                                      KIND DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NO.
                                                                               BE 569130
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BE
                  PRIORITY APPLN. INFO.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19570705
                                                                         Substitution at a polymethine dye heterocyclic N atom of an electroneg. hydrophilic group containing at least one SO2 group and consisting of a hydrocatbon radical linked by a CO or SO2 group to NH which in one of the same ways is linked to another hydrocarbon radical, OH, or amino,
hydrocarbon radical linked by a CO or SOZ group to NH which in one or the same ways is linked to another hydrocarbon radical, OH, or amino, prevents these dyes from permanently coloring photog. material without destroying their sensitizing power. These new dyes can also have the betaine structure. The following compds. were prepared: Br(CH2)4802Cl, b2 98° (new method); Br(CH2)3SOZNHA2, m. 60° (from CGH6-petr. ether); Br(CH2)3SOZNHAC, m. 93° (idem); Br(CH2)4SOZCL, b2.5 128°; Br(CH2)4SOZNHAC, m. 93° (idem); Br(CH2)4SOZNHAC, m. 88° (idem); Br(CH2)4SOZNHAC, m. 88° (idem); Br(CH2)4SOZNHAC, m. 88° (idem); Br(CH2)3SOZNHAC, m. 88° (idem); Br(CH2)3SOZNHAC, m. 10° (Me2CO); BrCH2CONHSOZMe, m. 110° (CGH6); BrCH2CONHSOZME, m. 10° (Me2CO); Br(CH2)4SOZNHNHAC, a white oil; Br(CH2)4SOZNHN(Ac)2, m. 116° (CGH6-CGH14); BrCH2CONHSOZNME2, m. 84° (CGH6); 2,4-dimethyl-3-(œsulfamoylpropyl)thiazolium bromide, m. 224° (EtOHEt2O-H2O); 2 - Me - 3 - [e - (acetylsulfamoyl)propyl] - 5-phenylbenzoxazolium bromide, m. 270°; 2 methyl-3-(e-usfinoylbutyl)benzothiazolium bromide, m. 243°; 2-methyl-3- [e-(acetylsulfamoyl)benzothiazolium bromide, m. 188°; 2-methyl-3-[e-(methylsulfonylcarbamoyl) benzothiazolium bromide, m. 188°; 2-methyl-3-[(methylsulfonylcarbamoyl) benzothiazolium bromide, m. 188°; 2-methyl-3-[-(methylsulfonylcarbamoyl) benzothiazolium bromide, m. 170°; 2-methyl-3-[-(methylsulfonylcarbamoyl) benzothiazolium bromide, m. 248°; 2-methyl-3-[-(hethylsulfonylcarbamoyl) benzothiazolium bromide, m. 248°; 2-methyl-3-[-(hethylsulfonylcarbamoy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  500, 480; 2-[(3-ethyl-2-benzothiazolinylidene)propenyl]- 3- [\pi (acetylsulfamoyl)propyl]-5-phenylbenzoxazolium iodide, 526, Ag chlorobromide (II), 615, 560; 2-[(3-ethyl-2-benzoselenazolinylidene)-2-methylpropenyl]-3- [\pi (ethylsulfamoyl)butyl]benzoselenazolium iodide, 560, I, 660, 605-10; 2-[(3-[\pi (acetylsulfamoyl)butyl)-2-benzothiazolinylidene)-propenyl]-3-[\pi (acetylsulfamoyl)butyl]benzothiazolium bromide, 560, I, 665, 595; 2-[(3-ethyl-2-thiazolidinylidene)propenyl]-3[\pi (methylsulfonylsulfamoyl)propyl], 504, AgBr, 590, 540; 1-methyl-2- [(3-[(methylsulfonylsulfamoyl)propyl], 504, AgBr, 590, 540; 1-methyl-2- [(3-[(methylsulfonylsulfamoyl)promide, 444, AgCl, 500, 480; 2-[(3-[(dethylsulfonylcarbamoyl)-methyl] - 2 - benzothiazolinylidene] - 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \begin{aligned} & \text{z-}[\text{i}s-|\text{(ethy)sulfony)carbamoyl)-methyl}] - 2 - \text{benzothiazolinylidene}] - 2 \\ & \text{methy)propenyl}] - 3-[\text{(ethy)sulfony)carbamoyl)methyl}] \text{benzothiazolium} \\ & \text{bromide, } 546, \text{I, }660, 600; 2-[(3-\text{ethy}1-2-\text{benzothiazolinylidene})-2-\\ & \text{methy)propenyl}] - 3 - [\text{(methy)sulfony)carbamoyl)} \text{Me}] \text{benzoselenazolium} \\ & \text{bromide, } 550, \text{I } 670, 605; 2-[(3-\text{[denthy]sulfony)carbamoyl)} \text{ethyl}] \\ & -2-\text{benzoselenazolinylidene}] \text{propenyl}] - 3 - [0-\text{(methy)sulfony)carbamoyl)} \text{ethyl}] \text{benzoselenazolium} \\ & \text{bromide, } 576, \text{I, } 670, 605-10; 2-[(3-\text{ethyl-}2-\text{benzosaclinylidene}] \text{propenyl}] - 3- [0-\text{(methy)sulfony)carbamoyl)} \text{ethyl}] \text{benzothiazolium} \text{iodide, } 522, \text{AgBr, } 600, 560; 2-[(3-\text{ethyl-}2-\text{benzothiazolinylidene}] \text{propenyl}] - 3- [(\text{methy}\text{lsulfonylcarbamoyl)methyl}] - 5,6- \text{dimethy}\text{lbenzothiazolium} \text{iodide, } 568, \text{I, } 670, 605-10; 2-[(3-\text{ethyl-}2-\text{benzothiazolium}) \text{iodide, } 526, \text{AgBr, } 620, 560; 2-[(3-\text{[f})(\text{methy}\text{lsulfonamido})\text{ethyl}]) - 2- \text{benzothiazolium} \text{iodidene}] \text{propenyl}] - 3- [0-\text{methylsulfonamido}] \text{thyl}] \text{benzothiazolium} \text{iodidene}] \text{propenyl}] - 3- [0-\text{methylsulfonamido}] \text{ethyl}] \text{benzothiazolium} \text{iodidene}] \text{propenyl}] - 3- [0-\text{methylsulfonamido}] \text{ethyl}] \text{benzothiazolium} \text{bomide, } 563, \text{ I, } 665, \text{ } 595; \\ 2-[(3-\text{ethyl-}2-\text{thiazolidinylidene}] \text{propenyl}] - 3- [0-\text{methylsulfonamido}] \text{ethyl}] \text{benzothiazolium} \text{bomide, } 501, \text{ } 360, \\ \text{[methylsulfonamido}] \text{ethyl}] \text{benzothiazolium} \text{bromide, } 501, \text{ } 360, \\ \text{[methylsulfonamido}] \text{ethyl}] \text{benzothiazolium} \text{bromide, } 501, \text{ } 360, \\ \text{[methylsulfonamido}] \text{ethyl}] \text{benzothiazolium} \text{bromide, } 501, \text{ } 360, \\ \text{[methylsulfonamido}] \text{ethyl}] \text{benzothiazolium} \text{bromide, } 501, \text{ } 360, \\ \text{[methylsulfonamido}] \text{ethyl}] \text{benzothiazolium} \text{bromide, } 501, \text{ } 360, \\ \text{[methylsulfonamido}] \text{ethyl}] \text{ ethyl} \text{[methylsulfonamido}] \text{ethyl}] \text{[methylsulfonamido}] \text{ethyl}]
                                                                               (methylsulfonylcarbamoyl) ethyl]benzothiazolium bromide, m. 248°; 2-methyl-3-[\beta-(methylsulfonylcarbamoyl)ethyl]benzoselenazolium bromide, m. 102°; 2,5,6-trimethyl-3-[(methylsulfonylcarbamoyl)methyl]benzothiazolium bromide, m. 114°; 2-methyl-3-[(methylsulfonylcarbamoyl)methyl] - 5- phenylbenzoxazolium bromide, m. 124°; 2-methyl-3-[\beta-(methylsulfonamido)ethyl]-benzothiazolium bromide, m. 150°; 2,6-dimethyl-3-[\alpha-(acetylsulfamoyl)propyl]benzothiazolium bromide, m.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ANSWER 109 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)
(methylsulfonamido)ethyl] - 2 - benzothiazolinylidene]
methyl]-3-ethyl-4-[(3-Et - 2 - benzothiazolinylidene) thylidene]-5-
oxothiazolinium bromide, 611, I, 710, 660; 2-(2-thio-3 allyl-4- oxo-5-
thiazolidinylidene) - 3 - allyl - 5 - [3]6
(methylsulfonamido)ethyl] - 2 - benzothiazolinylidene]-
ethylidene]-4-thiazolidinone, 568, I, 700, 640; 2-[(2-thio-3-Et - 4 - oxo
- 5 - thiazolidinylidene) - 2 - phenylethylidene] - 3-allyl-5-
[3-[β-(methylsulfonamido)ethyl]-2-benzothiazolinylidene]ethylidene]-
4-thiazolidinone, 630, I, -, 730; and 2(p-dimethylaminostysyl)-3-
[9-(acetylsulfamoyl)butyl]benzothiazolium bromide, 544, AgCl, 680, 600.
92504-02-0F, Thiazolium,
2,4-dimethyl-3-[[(methylsulfonyl)carbamoyl]methyl]-, bromide
96435-22-P, Benzothiazolium,
2,5,6-trimethyl-3-[[(methylsulfonyl)carbamoyl]methyl]-, bromide
99996-52-P, Benzothiazolium,
5-methyl-3-[[(methylsulfonyl)carbamoyl]methyl]-, bromide
99996-52-P, Benzothiazolium,
5-methyl-3-[[(methylsulfonyl)carbamoyl]methyl]-, iodide
106599-46-6F, Benzoxazolium,
3-[4-(acetylsulfamoyl)methyl]-2-[5,6-dimethyl-3-[[(methylsulfonyl)carbamoyl]methyl]-, iodide
106599-46-6F, Benzoxazolium,
3-[4-(acetylsulfamoyl)methyl]-2-[5,6-dimethyl-3-[((methylsulfonyl)carbamoyl]methyl]-, iodide
106599-46-6F, Benzoxazolium,
3-[4-(acetylsulfamoyl)methyl]-2-benzoxazolinylidene]propenyl]-5,6-dimethyl-, bromide
R: FREP (Preparation)
(preparation of)
9250-42-0 CAPLUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N (Continued)
                                                                            ANSWER 109 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued) 540; 2 [[3-[(methylsulfonylcarbamoyl)methyl] -4- Me - 2 - thiazolinylidene] propenyl] -3 - benzylbenzoxazolium iodide, 514, I,
                                                                      thiazolinylidene] propenyl] - 3 - benzylbenzoxazolium iodide, 514, I,

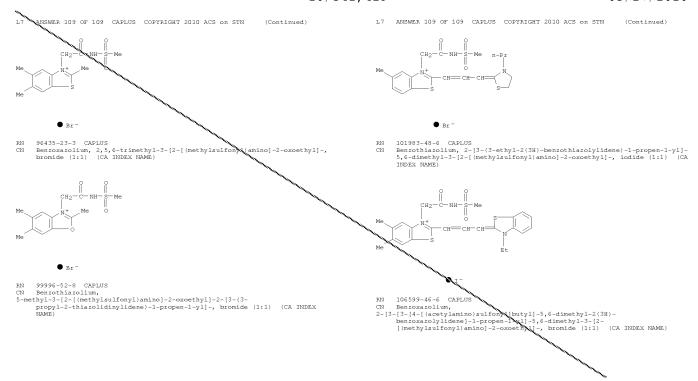
555; 2-[(3-propyl-2thiazolidinylidene)propenyl]-3-
[(methylsulfonylcarbamoyl)methyl] 5 methylbenzothiazolium bromide, 509,
AgBr, 585, 545; 1-ethyl-2- [(3-ethyl-2-benzoxazolinylidene)propenyl] -3-
[\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[$\text{[\text{[$\text{[$\text{[$\text{[\text{[\cute\tint{[$\text{[\cute\{\text{[$\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\text{[\cute\tildes}}]}}}
                                                                   - 5,6 - dimethylbenzoxazolium bromide, 501, AgBr, 555, $20; 2-[[3-(sulfometh-oxycarbonylmethyl) - 2 - benzothiazolinylidene] benyl]

- 3[ω- (acetylsulfamoyl)butyl] - 5,6 - dimethylbenzoxazolium betaine, 526, I, 600, 560; 2-[[3-[ω-(acetylsulfamoyl)butyl]-2 - benzothiazolinylidene] - 1,3 - pentadienyl] - 3 - [ω - (acetyl-sulfamoyl)butyl]-2 - benzothiazolinylidene] - 1,3 - pentadienyl] - 3 - [ω - (acetyl-sulfamoyl)butyl]-2 - benzothiazolinylidene] - 2 - ganacy-2 - stearoylaminonaphthalenesulfonic acid (III)); 4-[3-[ω-(acetylsulfamoyl)butyl] - 2 - benzothiazolinylidene] - 2-cyano-2 - butyronitrile, 450, II, 540, 485; 1-[β-(methylsulfomanido)ethyl]-2-[(3- Me - 2 - benzothiazolinylidene) - 2-cyano-2 - butyronitrile, 450, II, 540, 485; benzothiazolinylidene methyl] quinolinium broxide, 486, I, 560, 540; 2-[[3-[(dimethylsulfamoyl)carbamoyl]methyl]-2-benzothiazolinylidene] propenyl] -3- ethylbenzoxazolium iodide, 526, I, 600, 560; 1-phenyl-3-methyl-4 - [[3- [ω - (acetylsulfamoyl)propyl]-6- Me - 2 - benzothiazolinylidene] -1-[-1]-[β-(methylsulfamoyl)propyl]-6- Me - 2 - benzothiazolinylidene] -2-methylethylloenylarbamoyl] methyll - 5 - Me - 2 - benzothiazolinylidene] -2 - methylpropenyl] - 3 - [(dimethylsulfamoyl)carbamoyl]methyl] - 5 - benzothiazolinylidene] - 2 - methylpropenyl] - 3 - [(dimethylsulfamoyl)carbamoyl]methyl] - 2-benzothiazolinylidene] - [3- [ω-(acetylsulfamoyl)propyl] - 2-benzothiazolinylidene] - [3- [ω-(acetylsulfamoyl)propyl] - 2-benzothiazolinylidene] - [3- [ω-(acetylsulfamoyl)propyl] - 2-benzothiazolinylidene] - [3- [ω-(acetylsulfamonyl)propyl] - 2-benzothiazolinylidene] - [3
                  propenyl]
```

preparation or; 92504-92-0 CAPLUS Thiazolium, 2,4-dimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME) ● Br -96435-22-2 CAPLUS 90430-22-2 CAPIDS Benzothiazolium, 5-trimethyl-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)

(preparation of) 92504-82-0 CAPLUS

2-[(3-ethyl-2-benzothiazolinylidene)-2-methoxypropenyl]-3-allyl-4-oxo-5-[(3-[ $\beta$ - (methylsulfonamido)ethyl]-2 - benzothiazolinylidene]ethylidene]thiazolinium methosulfate, 618, AgCl, -, 690 (in the presence of 10 g. III); 2 - [(3 - [ $\beta$  -



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• Br-